





Packard BellSUMI####Simulating endogenous growth. CRT1####0V#####LSTM####0V##

###LSBY###40)0^0j00#0I0/Z0#00##04D0|0U0#03C  
□z0M0s000#00#0ARPW####0!##ACSR#####FORM###0RUN FORM###6LIB LNM  
####PSXFSTD.DLL#USED####0#0#0T0#0#0#0#0\*0#0sSTAT#####MAGI#####n+0SOP  
#####FORM###, RSTPRCNT#####RDEL#####ATPS###  
#####0?  
UNAM#####K#####UDSC####TMUT#####RDNM#####K#####RENM#####K#####RDDF#####VNAM#####K#0#Q#  
Epsilon#####Alpha#####Theta#####Nu#0#0#Initial\_Percentage#]#|  
#Marginal\_Propensity#F#j#Beta#####B#####

Final\_Output### #Intermediate\_Output###  
#Physical\_Capital#### PC\_Growth###

##

Interes\_Rate#####Wage####Human\_Capital####

Change\_in\_HC#####Time\_to\_Adjust\_HC###H#Technology\_in\_Development#####Change\_1#####P  
roductivity\_Ratio#0#0



Productivity#####Productivity\_1###  
Total\_Time#####Growth\_Percentage#0#0#Percentage\_Working#

#!Initial\_Technology\_in\_Development#]#{#Wage\_1##<# Dividends#0#0#RD#0#0#a###  
%#Growth\_Productivity#4#\#Technology\_Adjustment\_Time###I#Initial\_Consumption#

#0

Labour\_Income###)#Growth\_Rate###\*#Final\_Output\_1###+##Firm\_adjustment\_time#0#0#Perc  
centage\_Adjustment\_Time###C#Desired\_firms#0#0Consumption\_1##;

Percentage\_1##=

Growth\_Wages#H#r#Number\_of\_Firms#0#0#Change\_in\_Percentage#  
#A#Consumption#0#0#Initial\_P\_Capital#]#y Resources###K HC\_Effort###L

Technology\_1###M#Innovation\_Rate###N#Growth\_Consumption#D#i#####Human\_Capital\_1#4#]  
#Porcentaje\_en\_RD#0#0#Growth\_Human\_Capital#4#^#Physical\_Capital\_1#4#\_#Growth\_Physical\_Capital#4#`##Wages\_Ratio#H#s#Income#0#0#Reference\_Labour#0#0#q#`#}#Technology\_Effort#k#~#Change\_in\_firms#0#0###Initial\_Technology#2#0#Change\_2#2#0  
Technology#2#0  
Initial\_HC#0#0#Desired\_Learning#0#0#Intermediate\_sector\_growth#0#0#Desired\_Working#0#0#VSWC###E#####'###'##'#####'#####'#####V  
FTP###E#####VTYP##  
#E#####VUNT###0#dimensionalless#dimensionalless#dimensionalless##dimensionalless#dimensionalless#dimensionalless#1/Hours

final output

final output



final output#final  
output/year#dimensionalless#dimensionalless#1/year#1/  
year#dimensionalless#1/  
year##dimensionalless#dimensionalless#hours##dimensionalless#dimensionalless#dimensional  
less###dimensionalless#dimensionalless#1/year#dimensionalless

final output#dimensionless

final output##1/year#

final output#dimensionless#dimensionless##1/year#

final output

final  
output#dimensionalless#dimensionalless#dimensionalless#dimensionalless#dimensionalless##  
dimensionalless

final output#dimensionalless#dimensionalless###1/final

output#dimensionalless#####NUM ###0#

np=

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50?#0G0z#0?#0000000?#####0?#

np=

0?#####0?#####0?#####0?#####@#####@#####0?#####00@#####0?

#####0?##0000000?#[#0G0zt?#####@#d0]K0#0?#####0?

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##G##M#######G##M## #S##S#######

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##4###\$#!###0### #####  
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###4####&# ##\$#####\$M###  
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###0#\$&###0#\$# ###0###D#####0  
s0# ###0##### ##\$0###0# ##\$Q###0#0#####os0# ###0##### ##\$0###0#  
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##### \*0###K#####\$#####\$#\$### ##0#0###L#####\$#K#####M##### #  
###\$#####0#\$#####0#\$#####0# ### ##\$#####0#0#0#\$#M###0###N#####"# ### ##  
###\$#.###0#\$#####\$#####0#0#\$#6###\$#M###0#0#0# #0###O##### #0###'#0#####  
#####\$#0##### T0#0# ###0###P#####\*# ###\$#####\$#C###0# ###\$#####0#0#  
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#r\*#  
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#

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TIMS###)#####I@#####0?{#0G0z0?{#0G0z0?##RSLT#####SCL  
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50?)\000(0?#####Y@#####\*0@####  
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###)#####t###?###c#####00##000#####00##000###%Rate of  
Accumulation of Human Capital0#####0#####Times New  
Roman#####00##000#####years=0  
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Growth0#####0#####Times New  
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#0###7###c#####00##000#####00##000####Rate of  
Innovation0#####0#####Times New  
Roman#####00##000#####years=0  
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###w#####x###A###c#####00##000#####00##000####Crecimiento del  
capital f0sico0#####0#####0##Times New  
Roman#####00##000#####a0os=0  
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###0#####0##Arial#####



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u####5#0#####c#####00##000#####00##000###Growth  
Labour0#####0#####0##Times New  
Roman#####00##000#####years=0  
#####0#####0##Arial#####00##000##### [0###  
###0#####0##Arial#####dimensionless=0  
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###R##2#=######@#=####P###c#####00##000#####00##000#####0#####0#####0##T  
imes New Roman#####00##000#####  
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###0#####0##Arial#####

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imes New Roman#####00##000#####  
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###0#####0##Arial#####

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\$0#####c#####00##000#####00##000#####0#####0##Times New  
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#####00##000#{Par:Individual}  
[0#####0#####0##Arial#####A##4RCE #####]\$0#####]\$0###

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Roman#####00##000#####  
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{Par:Global}=
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[#####Arial#####A##4RCE #####]$#####]
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{TIMEUNIT}=
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Roman#####00##000#####
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Roman#####00##000#####  
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[0#####0#####0##Arial#####A##4RCE #####a%0#####a  
%0#####c#####00##000#####00##000####Rate of Productivity  
0#####0#####Times New  
Roman#####00##000#####years=0  
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###y##l+0#####l+0###

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#####0#####0##Arial#####=-0  
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{TimeUnit}#####0@0@#####0 # {Par}##0 # {Par}#UY#RCE  
###y##l+0#####l+0#####c#####00##000#####00##000####0#####0#####0##T  
imes New  
Roman#####00##000#####[0#####0#####0##Arial#####  
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#####0#####0##Arial#####=-0  
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##(0#####I@#####\$@#####@#####0000000?0000000?{#0G0z0?  
#####'{gen}: dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0####t#####00b10)?Zdx0  
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A0w#TZ0  
A0VEU00  
A%=00#5#AM"000|#A0#0##0#A#0ki0



AW0#<dV

A0<U#00

A"0\_000

A00]02A#OF00|A00%0A00i00##A#0#c0\#A#0P.#0#A#&#v0#A0&00?#Az!  
X#4#A4b0#T0#A00\*00##A#0{M#9#AbT000\_#A0q0#A 000#A0! 0r00#A000#0#A|  
0=0}##A00#{#K#AYwx 0r#A0jT#00#A(000#A 1

&00#A#p00###AgG#iw;#A##;0#d#A#\$^000#As#[ '00#A#;000#A0##0##A)0#000#A0000IZ#A(000σ#A0  
#q!x0#A-00#C0#A00#00##A00E=@+#A 0  
#rU#A00[#0#A0`00;0#A0#0000#A#0#00#Ah#^#h\*#A'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
###0##=#Ze6wJ0+0@f4u0>0@#0wW0P0@\_#00Nc0@w7#g0v0@0##^[00@0F# 00@#?00+00@0#0M000@  
0C[#00@É\*[0#0@G00#0=0@0Q0i0c0@0#50G00@00|0000@#N0#(00@00f20#0@0V#W0L0@  
01000@0f<.000@0#s0#0@0ed^#D0@000q0@b0#6000@8#00#(0@0N#00|0@0

0|00@0^0040@0}p#o00@08@0##λ 100#o0@u00Q000@wPÈ0[0@#@žZ00@0~#0^0@00#0000@

p00Iz0@x=l0+#0000V0000G00Q000#0#00000  
)h00@00T00c0@bs0#N!0@0#00000@00040X0@#s0(000@[WH00-  
0@\$0#U000@00n0#0@##0{000@Wj#0#0@xG#0S00@#r:nL#0@000\*000@0^I?0

@t01I000@00+qS&0@ö.wQ00@<ze00M0@00Ld00@000p00@0L#

!@K2y@#YyLj@e.#@#a##@|o@6{J"@w|@K'o#0+N@Á^##A#\*  
#h#A+[##A8b'/#A#E##AcUG#A##@#e#A#



W#AqS#;#A\$00?#A00)[0##A00100#A0\$0q\0#A00D#8k#A2#00W0#A00#U#A00K#0#A0J  
%0qD#A0h03\$0#A0[G0+9#Ab}0%00#A#000/3 A0i0%0 A5ž0e2  
A0S)p0  
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AWR000

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▣#A'0a0j0#A#0=G0\$#A000#4n#Ao0#0l0#As00d1##A3C000N#AU000W0#A0#`00#At0vk03#A00r#0#A0"  
0Q00#AN}\*0h##Ae%00[l#AL10]λ#A0#?0##A0u#]/\#A,X0##0#A00M

00#A~0M#CP#A0|0#A#0B000#AML000H#A40.A00#A0Gr.00#A# #UKE#A#%000#A0j00  
0#A0@0N#F#Ar000j0#A0000?0#A0\*v0J#AM0/  
0#A=000H0#A##000R#A0]j00#A#00a###A0d0Q0^#An#n0#A#000m##Aj0Xn#A0l0\0#A0`  
0W%#A00#0j0#A030200#A0000:#A,0LC0#A0(` w0#A{00L0) A00#00X A0j0.0 A000@00 Abzz0\_0  
A0#z0<#!A090EG!A0:00{w!A+xw0!A#h .k0!AG5w#\$

"At#;/#:"Az+0##k"AD#0QP0"A;n>r0"A0004A0"A0u700#A0m000b#A#0#00#AJ0U9#0#A08q#o0#A##0#  
0+\$A}U70^\$A#(Z(p0\$A #00j0\$A0TH000\$A0K00\*%A,0MgE^%A#000%#%A000#00%A0ixZ|0%A#000-  
&A,00  
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0&AU0S000&A#0zU\$0&A\z0003'A60F0h'A420#0'A000#0'A#:0qm#(A 0M0=(A000;0s(Az#-  
0N0(A#0sA70(A'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
###0##=#Ze6wJ0+0@f4u0>0@&000iP0@0! 0b0@#m#0sv0@#00#a00@?  
#>000@op\*qB00@#20##00@{0v00#0@J00v0+0@00t00U0@d000a00@040-w00@?|  
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w0-00@0690#z0@0#000#0@yw+0t00@%0!,0@0Q0P00@0#  
.a00@#00g0<0@R#w\*0#0@,'0cF00@dw00\*00@:0#0y00@p.0Mn00@e00H=00@i0,0W0@#0M  
00@#0<]8}0@#&M0##0@00Y0000@0t

##h@=000Q#000;0S00009#0#000##3#0U0@#00#+"0@0l#0Y0000|00H000@2\$0000  
0#I0000;0QI00000\00y0@t>00#u0@5c0#0v0@036#0030000F#A0  
00e0#A#00Y#\_#A000#00#A0e.00#Aγ#v###A0[00@0#Ad^A0}R#A00B00#A#;J0#0#A\  
#r iJ<#A=Jw00#A#0#0#A0@#AD===00#A#0p#j0 A0l0K#\_  
AG00#r##A0J 0#A0V0#00

A%L??YA0h0<0##Ad0000#A00R{S0#A000EO?#A008#@0#Asm[0x##AV0000z#A0aL#00#A[0000S#A  
:0000#Axe00K1#A00000#A0@J\_j##AmR 0#A0 #000#A0000#p#A[]X#h0#A000]#A000{0#A

000'P#A0}#000#A,700F#A0 u000#A0^#"b#A0X00A0#A0a0!@#A0h0000#A0q000B#A?100#A|  
x#0XI#A0=@0#0#A0##0S#A0-@0#0#A0/00za#A00e00#A0WA#0r#A0u00#A0L000C AV#,#00 AW`~  
00 A\_00{0#!AwH00}!A0##00!A`0000!  
A0#h#5"A0#DZ0}"A\_00=00"A#0Z0##A0K000Y#A00#b00#A0W00#0#A@0b!08\$ALF#0q\$A0# ;?  
0\$A0P100#%A000S#g%A0zW0r0%AU0Ct(#&A.,!0.M&AC00  
00&A#0#0)0&ADc00#6'A0D>0Z0'A10@@00'A|0#00!(A#0&00p(A#000A0(A00^ 0#)A0u=00\_)A  
f00'0)A/(E00#\*Ab00dtQ\*A0]0s00\*A000#00\*A0l0leE+A0000:0+A0rL#R0+A\$000;,AXD0#B0,A#0#0#  
0,A0p004-A0f^0-A0"i##0-A40{00..A#0l0.A0@0sA0.A00 o0+/A#{0  
0/AB80p00/Av#rL^#0At#s0#@0A0#000j0AV0000A0!i0000AC[ 0#00A00Zf`#1A0m000B1A  
%0#,Cn1A0c910A'0Q10\_A#0>0f01A\#\*]T#2A10X0\  
I2A0z000u2A0M002A#0N0#02A0#0#002A0<0##'3A0^s00S3A000|003A0X-0g03A#0E`03A/x{0s#4A6#\  
0044AZuk00a4A0y0VI04A 0]4A000#Z04A!0ZE #5A00c0E5A#00X0s5A#0t#005A\#00005A'{gen}:  
dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0##=#Ze6wJ0+0@f4u0>0@#,0b#P0@C%02  
b0@Q<v#0u0@s000U00@k00dt0@00{0700@0`00}00@0p0i#0@00  
ε=0@00=0o0@000#000@C0#0000@e9000,0@0#0-+{0@0L0G00@0K00  
30@000>00@s#00#000;y0+00@z10,0&0@Sv0,000@#0#0po0@0q0j0\*0@00#\000@o00!  
00@00)v00@z6ÿ#000=A ##00@00#0000@0g00030@  
30q"A0@{0}K000@#)z0000@.h00Bu00>0P0tF00e);#X"0@0y0/0#00



0-0000@#0#0e0000-0010000I#00#0@  
000\*0@r'00qQ0@0#0u0000@7Gtp?00@Of0I;#0@-0#0?\*#A020#|0#A0GJlj#A0#0#A#A04&{\_0#A  
,n900#A00000#A`00#00#A0020^##A0wn000#A#00#0#A#"0#0#Aq#70k0 A#00n{t  
A00UT#`#A##z0\$P

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j.00,#AXk0T-0#A0##0\_#A`<0#00#A0[0#s#A0g/\9#Ae0L'00#AH00}#A0.UG'"#A0!  
#9X0#A0#r0#p#A#|{|s##A'J00#Abk0p#A0a^00##A00k00#A0U0#@? A 0L0 A0000#0 A:00pL!  
A#HrZ00!A0dWJ7#"Aq,r0\_"A0#1000"A0S#0###A0%Fx#A#\_0V#0#Ag\$Q0]6\$A\4y0B0\$A00}000\$A0,0w  
%A10|#80%A 0\_B#&A0#0<0}&A0p0#00&A0;00fD'A\_0N#L0'A<0<@0

(A 00q(Azi0G0(A#+^K"=)A:000L0)A0000\$  
\*Ax0!0Hq\*A('m;00\*AR0\$0@+A0qψ&0+Ag##00#,A#0?~#{,A0!д00,AL000jN-A0@0z00-A#0  
0C#.A0#080.A.0T00.Aj 0+e/A-#20&0/A?d00#0A0F0n  
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:A#R0I0\$;A0=000\_;A0+00}0;Ab0#~e0;A\*0#" ]#<A:R#eK<Ao4l0}0<A06^00<A0000<A0000028=A0v00s  
=A0\$.#0=Ad0a\_0=A0 #0/&>A0,000a>Al0:L00>A0Bc-  
00>A###=#Z###=#Z###=#Z###=#Z###=#Z###=#Z###Vx#RIE  
##(0#####I@#####\$@#####@Zd;00000X900v00?{#0G0z0?000Mb`?  
#####'{gen}: dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0#####\00P□v?005000?0N#0y\0?0m 0S0?000ú0?  
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#H,0&H0?00p0=D0?\$#6Y#@0?000;0?0#6{070?0#0030?.]\_0000?0>00+.0?050\*#,0?F###7\*0?b\  
040(0?080#!0?60\=}%0?0J\*00#0?0Qh0!0?>000V#0?0R000#0?2#0o##0?0h00P#0? 0?0#009?0#0  
900#&#0?YRdX0

0?Cnq0  
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z\_0i#00?0#`A00?0\xvy00?000u000?0L00?0~0#00?5#d#i00?0z00000?#00p#00?00000?# 0#Q0?  
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k0?#}##0g0?00g0vd0?0#E07a0?0\_000]0?C0t00Z0?00v00W0?0#0azT0?0r00WQ0?YL008N0?%0[0#K0?  
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#i0q#\*0?#N#U.'0?0LT0NS0?0.#/s!0?(00c#0?08Fm0#0?Ht000#0?0#S0-#0?0 b#f#0?U%D00#0?  
00br00?00Pl(#0?0#0q#0?D#0!0#0?u000##0?00q0f#0?000000?D?Z0#0?i\00?0#0000?0W

0P0?000d00?^uQ0/0?-č00?00n0#0?00o000?'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
###0#####`030CWz?f(0#0f0?r0Le0Γ? 0#dxg0? 0020?0M#00?0]n000?q[ 0(\$ 0?0X!K?  
000#0s0?5{B#}#0?0U0χ?0B#000?0"0#0.0?0.000□?=#|0#00?a9/0{J0?000?|#0?00F00?n4000v0?-  
0x##40?#h05k0?#;0#y0?00Y80w0?0 :#0<0?R00#0#0?0=0#U'?#00gi0?f00~#c0?0#00#10?  
00Zb0#0?0#F0#F?m00 0?0S



xy0?UjR=000?#H00#'0?0\_0###0?0q040j?0}d0h00?#x0,000?`Ioc#r0?0x00Q0?0N00020?0V#0##0?  
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00?\$000400?00x+0e0?=<0đJ0?a0<0000?0M]0@#0?000j0#0?#0c00?00J0Q?0\$á00?000R00?  
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q&w0##0?#,n5u#0?}<t0}00?0e0F#0?0:0@A0?00g000?#PKv#0?#00j0□?00#d0?0002}U?40{0zэ?  
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j#C?\?"zD?□?E?T\$G?YgH?I?#\_(Jy`K?tXL?@#M?#<N?  
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e070nX0?00\*00X0?&0H#0X0?'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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00L000y?))#00zz?003?0U{?7#0"2|?00800#}?0&0##0}?#y^#40~?J00I=00?0'%KrA0?0Y#0y00?  
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0?<0#nq0?00@;#\_?0\_hbX=0?KlSx00?00#0#0?0q0Cf0?#0000J?0f0?0%0?n]xψ0?z00Y`0?00\$00;0?|  
0ROW00?#l0#00?0000D0?#0#H00?j#{Nj0?o##/#A0?|#00\_00?\:0000?0<##000?0r+J0}0?0r40i?  
0300##0?cN,00[0?0.#\$0?#00k00?00!#-0?00w#p0?;AKu000?d0g000?l#0#000?000\*Ln0?200^00?  
00KQX0?00000#0?3yt0\*w0?&3!0'00?0;·0i?0

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0]¿Á?.001.?M0TY0#?'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
###0##### `030CWz?fU#0я0?000#00?I00#0?#X0|0)0?i0|#0X0?#0)0RP0?0c50010?  
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#60016qI00000 00 0v0]000k00##000H00#0L00##}0b  
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00AN0#0?00#0#'0?#f00JA0?0#0hKZ0?V000&r0?ä0-□?0\0#000?0y#300?  
B#|0L?:ЦUu?0#0|&0? #000?0B##0#0?0000#0?000#)0?0#0g60?x|n0#C0?000h0N0?Pj000Y0?  
0{00\_d0?C00#n0?0s0#(w0?0#:S000?#0#`0?} 0GZ000?0qrf200? 0Q#B00?>#08Ä0?#0#kβ0?  
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&#f%00?0000200?#000#00?800M000?000?00?0300000?0g#0A0?0yK0z0?=0i#0{0?0/  
0"dv0?'{gen}: dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0#####`030CWz?# 0}Z00?0D:00#0?b0La0??0{"a(0?  
Q\_00J#0?0#0<t00?|y20J80?0%###00?{{00010?-00#00?+-00#0?0#^A0o0?00@;'00?0,P0 0?  
0#yA#0?20Q00y?0;e0?q?0uU000`? 0YDX#0#EQ0!\_b0h;1#r0.0,V0#{0#0-q000-#C0Q00)004q0000z-  
0000FQ0#]000#T00B0000#h0

0000h#D0000\V>G?000to0@000JX0#0š0F00,#EF  
0S0@0 000f000o#00'000 000 zb#8S]00##00R 0?000R00'k0x0000#000  
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r`l0k!&0#0b00-#000R0#0/&0l%0##0/#R?000V00a?00#00fj??00s\_q?w00`0mu?zi:0@]y?z0G#@.}?  
00#Zp0?a000]:0?l0#0F0?g0A900?000#d>0?@J00?(000?M0?D0W0n00?00QX0#0?#0000z0?9u00]d'  
0d0□00?0w000#0?3aF#000?q00{060?0#0R0?L0mV0=0?00#:000?

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o0?000Q500?0p0δ?0##00?\_0M# 0?03Q\0F0?000i0?0#0□0?0#s#00?r000T?00010?00VR00?  
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\*#0>#00?0,000?0\_0.□0?;0□0?0"0\*500?\*00a}0?#|z>t0?=Pg00j0?000#a0?0@02#W0?00000L0?  
0-00uB0?i□00070?\_0;#0,0?0#000!0?0R000#0? 0z[##0?TH03n00?00Lz0?8000?□-r 0?0c"  
sç?\t0!ú?0##l000?W#|0(00?T00#000?hS0L0?#0s%0?□00U#w0?0=^□%j0?'#03 ]0?00J0#P0?  
0V010B0?000N050?l##00(0?\*jyhA#0?:#l000?00~;0#0?0SM0?)00000?#00n0?00t0,'?'{gen}:  
dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0#####`030CWz?#0  
0□?A##C0#0?00"0#00?0RV0?)0?p00\$0\_?0W0L0\*0?00#^P@0?##00N50?&"0q0C0?#0#p0Q0?0#0  
y00?/00\*v00?00]rP~? z#1#s?#y\I0\?0g#0]sT0[V#0)0q000#D0!□00B;/0J000l#2\#00zp00□  
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n#0N0000I0;00000j0##00056#0G0900Д#0000000>00#0E01I000.0#0.000#00\$08#0#'00000t@c00  
0S;00#0w2#]00000##Z00#0 09400<0000q0##0000M00#  
009su00q00000#0ä0000^0#00#0 000000i0#Q00'000e0000##q000dG00□080K'□#2#0#00,  
10D000U#00#000SC000x#00000000j6000q0\*\B00000\$0U000!A00|00Q30e00000 00#|  
0N=0R00t0W\_#00#l000#N^ ]0;##00U'00K#w0Vv?0#0\g?0j000q?0n0j07w?0&+tz0|?#0<0!0?  
00#I0t0?0L0N]□?#00/\*0?0?z00^0?T0##z0?00i|}0?0x#д40?řax6#0?0s0Y00?0;T0-Á?0#>00?  
X00ct^0?#p00U#0?00M00□?0#sjg0?0NSa0#0?0\$06000?!0-n0#0?#0# 00?Ü0#E%0?0000q00?{0V00  
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Šq##Q0?Aof0#00?00s#0K0?~##(0G0?00~2eB0?Q80y=<0?Π/0250?0#00P-0?00\0\$0?`>iz6#0?  
#,0=##0?%00:D#0?u.0#00?000000?0;#.0?0l0v#^?q?00JG?G000?)00#0o0?R0□1060?00#00?  
00>0#ŋ?0f&T#00?00A=n00?n#0000?'#d0?^c0□?0Xy0?0CV□00?0J00F0? 00wΩ0?0##0\00?  
#0[#M00?h[0?0b#^00?#00000?#[P0000?0A00s00?□a##(00?000?Q0t0x0?aw00m0?ru0a0?#0-bU0?  
Kz#0fH0?0000:0?Z-qL,0?0'000#0?00[-W#0?000  
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dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0##5#0#####000#=#0#00+ιT0#s0=00c0#0□0□o00a#0<  
s001E0#0t000#0g0t0000)0#t0#[G00□t0#b0!pu0009#6pv00q□0Dw0#0&F}0w0#B0#0Sx000uj#0x00  
%000y00G#0.z000\$900z00|#r#^{0##00#0{0##07G#z000ic&0u0#0\*  
v0m0#Lj0#KX0#0000>?#BjVU`?#b h#i?#F0{00l?#0}0{fk?#0000e?#0000#\?#(c0>0C?#0Ctf0=0#  
j#0U0#0K000^0#<)0Z0a0#60#0`0#0&0/[0#z000fR0#0SB00@0#0{0u0#?#0#0\*0A?#8e`L?#000a#P?  
#XT000N?#Xj00#H?#0V00<?#@,0;0#?#`U0##+0#0+]0l>0#x0 #0D0##Ke0F0#Hw00E0#0  
s[B0#XP#0#:0#`00G?,0#05W%`#0#@#□#?# M0#□)?# 00No.?#0]00f,?#0U0\$?#0h0z#?#0k)000#00  
0# 0#0#00#\*0#00r0M00#@0,0010##ε0000##00#0-0#P<00#!0#0HG#0#0#000;##0##000Q0##`00?  
0>##∪A00>##l0200>##00w00#0x0!##0#@%000#0# [≤0#0#00]

0#0#p0>#0 0##0R!0#@y#0#!0#@#a0q#0# 00i#0#00Q0(#0#0k0M0#0#@h#T1#0#0u0\_  
0#0X70#0#0#0~d 0#@0+#0#0#0000#0#000(#0# è0A#0#0/#00#0#000#0#@w#0S#0#0iu0#0#  
0&0##0#00060#0##g00#0#9#0##00!  
(#0##0'nn#0#00##0#00w##0##20us#0#0]090#0#@0000#0#005 ##0#00A0#0#0#00#0##0000#0#`0□  
#0#`#A~e#####  
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#####\$###%###&###'###(###)###\*###+###,###-###.###/###0###1###2###3###4###5###  
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#####@###A###B###C###D###E###G###H###I###J###K###L###M###N###O###P###Q###R###S###T  
###U###V###W###X###Y###Z###[###\  
###]###^###\_###`###a###b###c###d###e###f###g###h###i###j###k###l###m###n###o###p###  
q###r###s###t###u###v###w###x###y###z###{###|  
###}###~###▯###xw#c#i#c=##@rG#o#w#G#g

0<#0#` (10H#0#`0g#c#0#02@P0#0#00!0#0#`000#0#0#00#0#0L0(0#0# ##U0#0#0\0ms#0##0=0F#0#  
h#/##0#00!00#0#0  
%\_#0#0r00@#0#010##0##0>#0#0#000#0#0#00000#0#@00X0#0#0)000#0#0000#0##0>0#0#@0:0#0##

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0#00H0/ 0##!#)# 0#@0000#0#0X0!0#0##00y0#0#@u000#0#@0#0#0#0!0- |  
#0'{gen}: dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0##5#0#####@0#f0#0#0X00j(0#000a060#0-  
Y#uA0#00s#D0#p0v0iD0#0#0C0#0#L00A0#d00]9B0#0XSA#C0#|  
0100C0#0#.00C0#(fi0C0#df0)zC0#00CL0C0#P00#0C0#00#00C0#  
00I0C0#0ZI#0C0#l000C0#0M000C0#Dج00C0#00A00C0##0E00C0#<T0 0C0#00  
%#0C0##L000C0#00#90C0#000D0C0#05#m0C0#P0]#0C0#0^00C0#8000C0#00,0C0#0n 0  
C0##00#~C0#dI0 nC0#0HK0^C0#l000MC0#0F<C0#`00\*C0#<#0i#C0#,0###C0#00G#0B0#00L00B0#h  
0000B0#0#0R0B0#x0#n0B0#T#K#0B0#\$<0ZnB0#0w8WB0#0hw0?B0#X0'B0#000#B0#000,0A0#0  
0a0A0##C000A0#HP10A0#hU`h0A0#8060xA0#Tu00^A0#t0XaDA0#0J0)A0#P05k#A0#0R-  
00@0#00100@0#0Jd0@0#0e0@0#00F{0@0#8Z0'm@0##ش0Q@0#00?6@0#00{0#@0##00\$0?0#00000?  
0#h0#d0?0#0000W?0#000`?0#p0000>0#@Q<:0>0#00#0y>0#00B>0#p0#~  
>0#`<>=0#00z0=0#`0'd=0#0r00,=0##!0g0<0#0a/50<0#  
#+#0<0#00##P<0#@009#<0#00v0;0#00#h;0#0v+Vu;0#0000>;0#090#;0##5000:0#00Qش:0#XT!  
#g:0#00K01:0##^#;090#0c0



090#00r#090#0d8A]90#P##0(90#(k#>080##a0 080#0G0  
080##0#AX80#x@h\$80#000Q070#0@ -070#pe0@070##0S0X70#00=#&70#0000060#X000060##0#□  
60#0#Fq^60#0G#-60#00#050#(=|%050#P#00050#00>#j50#x#00950#h5!#  
50#(#?\040#00L040#@0`0{40#`□L40##C0##40#00R0030#000D030#800A030#0#0{e30#0#00730#p0φ  
30#0#0020#0#0Ú20#P{00020#0  
0W20#p#'0+20#P00010#@0c9010#@l0010#x090}10#0m0R10#0[#(10#0070000#0Z0000#@00M000##&0  
0□00#0#k0U00#0[00,00##0#0#00#p0#g0/0#0ir#d/0#`s0J#/0#00#00.0#00M0r.0#0({#.0#0ASn0-  
0# v0x-0#00w07-0#00000,0# 0/00,0#B\$00,0#09!K#,0#K0G0+0#`>#0k+0#000  
+0##□000\*0#000u0\*0#`0oA\*0##00#0)0##000)0#030Pf)0#0M0##)0#@0o40(0# x0(0#Pa#0G(0#0  
□##(0#p0TO'0#P0A0t'0#p#0/'0#0,0p0&0#0\_0&&0#0#Yya&0#0#00#&0# L0

0%0#@#(0%0#0##%T%0#0g|0#%0#0Γ0\$0#0sL#0\$0##x00L\$0#Px00#\$0#00?i0#0'{gen}:  
dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?  
###0##5#0#####0@{zQ'0#0SH1(@0#00}w#N0#r2=0-W0#H0nYz[0#Fx.#0\0#\*)0p0\  
0#8k\_0[0#t0R0#]0##\$0\_0# 0d`0#0Nv0#a0#0A0#^a0#0zE80a0#0}0z`b0#0s00#c0#00Gc0#r0ob  
%d0##T0d0#0030&e0#"0A0e0#vz001f0#00#D0f0#0pα:/g0###v#0g0#;#y  
#h0#Yj00h0#00000h0#0000ii0#0SN00i0#/0.03j0#t.0  
  
0j0#004H0j0##00#Bk0#g0##0k0#0n0W0k0#p000&l0#e0Si10#p0##0l0#0#700l0#SSn#m0#00Bm0#0^0  
l0#5G#00m0#3050m0#00#|0m0#00U0m0##0#00m0#\v0U#n0#>Kj0n0#0]C0#n0#)0)0#n0#0E00#n0#\*!  
И n0##Y]0m0#}M00m0#0s000m0#0K#00m0#01P00m0#f0

v0m0####xxm0#0P00wm0##0004m0#0Eh##m0##0#L0l0#0Oct0l0#vt000l0#i0#dl0#00J04l0#05' \*#l0  
#0#0k0#00n00k0#00[#jk0#Ĉpt4k0##0X00j0##m}00j0#0##q0j0#r#Uj0#eQg#j0#z000i0#0|  
~0i0##40#ni0#080R3i0#0#Ip0h0#000o0h0#00#`0h0#0#0NGh0#0#0H

h##5`Yg#g#hg#n[g#T~!g#f#:ef#|  
sf#,R:f#,f#e#.[ë#Y##Ye#C!e##|  
#d#<\$#7d#~d##Hd#s#w#d#cc#S  
c#"vc#/

Cc#[#c#gmb#b#D{b##`#Kb#L#b#o#a#Za#j#a#`^a##.  
a#x;#a#2#^J`#a#

2`0#`000}`0#@706R`0#0DG#`0#x0#00\_0#000X0\_0#c00P\_0#0#000^0#\$d0#0^0#x-0#[^0#"0 0  
^0#0h0w0]0#<0p0l]0#0#00#]0##b000\0#  
h000\0#<00":\0##0#g0[0##00j0[0#ç#+\[0##:Z0#[0#&0B00Z0##-000Z0#Ld#X>Z0#0#/  
00Y0#00C00Y0#0C#>oY0#00#0+Y0#00N□0X0#80f#0X0#z01TdX0#0#00#X0#05L00w0#p0h  
çW0#000scw0#"000\$w0#0#000V0#F#0#0V0#8P0#LV0#`0#0/  
V0#zM#00U0#:0#00U0#X090}U0###00CU0#v000 U0#00 00T0#0S~

0T0##V00\_T0#Z00E(T0##Π"0S0#0DZ}0S0##00T0S0#2000NS0#0@\_r#S0#0V#00R0#0p0R0#0010|  
R0#0P0CIR0#,00Y#R0#00Z00Q0#00\_Q0##00>0Q0#00H#0Q0#0y0Q#Q0#□000P0#004#0P0#P0[00P0#-#  
0r\_P0#0D000P0#00;n#P0#h0=#000#Xx'0M00#PL#00N0##Z0#0N0#0 0PAN0#XC<C0M0'{gen}:  
dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0##5#0#####000`020#0##0EJ0#8J0-  
0X0#;p#0dc0#.0/0#g0##000h0##000i0#n#D  
0i0#MLw00k0##:twMn0##{0#Tp000JyMXq0000001r0##j00's0#0#e0;t0000V0^u0#40|  
bv0#Q0##0w0#0;6ix0000000y0#J00 0z0#|qI0  
|0#1#u0&}0#xxxj<-00"g?0L□0#0WJ0+00#0y#0000010@+00@00#0000#00.I#00@/0F□00#0#20□  
@0ot0G00@0#0)0000#0#0 0X0#06000v0qv00#" (0□000`"□00r/0"#00#?M###000H0  
090000#0#I000Z0P000000\*Q00@0<"0J000000=00#0000\*00#01<+#00000T/00?X0Vφ0000

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am0#00#000#k##60000t2I0w000\n0=<000s0`]0000L0G000#90?  
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nx00□#00#x000]0□w0#0ED0cw000#0##w0#0:0,0v00`;00gv0#{#s0#v0#0b0i0u0#  
%H#iyu0##000,u00000t00□/00t00#0|0Nt00^000#t0#0@Jt0s0##00z|  
s00\*z<08s0#I000r0#0BT^0r0#000sr0000uW4r0#0R000q0#90`\`  
0q00040{q000\_08@q000v#0#q00;0/00p00000'p000\  
00Zp000Vqt#p0#0#0#0o0###0no0#0#n0#o0#<0F00n0#00005n0##y0m0m0#0N0v lm0#0800 m0#0  
000l0#0^#0Hl0#n0 #0k0#M0



00k0#3#000k0#60#00j0#u00{j0#05Vm#j0#0hY#0i0#'C'0ui0#0[]0 i0#0(0z0h0#&)Hsyh0#0  
#w'h0#0n+00g0##v!  
00g0###c07g0#0U000f0#00c00f0#300vPf0#Z>0J#f0#000#0e0#n0#0qe0#E0#\*)e0#00d0#0000d0#  
70n0Td0#0\#0#d0#k~Dg0c0#0u00c0##00-Ec0#0":<#c0##f00b0##Vn00b0#0Z00Ab0#p0N0#b0#00  
0a0#l#000a0#000YJa0#0002#a0#L0L00`0#Y100`0#00k0]`0#00BD\$`0#40000\_0#080Yf\_0#

#!^#"\$^#x][^#xi]#([F]#>#\^ot\##+##\  
#]#&[ZaC[##Z#zI##}Z#u#Z#^#Y##Y##\$\  
X#V#X#V#CX#hW#|L

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0X0U0'{gen}: dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0##5#0#####00#":0##0D09R0#0#1-a0#-0u0Mk0#|?  
0=0p00D#00=r00j##0bs0#0v01t0#ZF00\v000#000x00QĀAY{0#\*)030}0##<0 000b 00 300#`0M 0  
#U0|0000|9l0000w0000Iue0V0000=0000000#C0X00@\_n#0  
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06T{00@#40#JX00X0D0#0000d00W0000k0000002900000d=0U000#u 0000;0#0000  
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#r0#00Z00q0#r0gtq0000#0q00#!000p00a`#y0p0##0^#ip0#H00(p0# |  
n:0o0#0#00To0#0#0y0n0#,00\_n0##0300m0#0Hqm0#00000l0#v00k0l0#A<00#l0#0#0k0#0  
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h0#Y0000g0###00g0##YT57g0#t\_#/0f0#(p)zf0#=0K]#f0##0q00e0#000\  
ge0#000##e0#qj0#0d0#0#[\_d0#00^1 d0#000l0c0#

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`0#^(000\_0#Jp0I0^0#00l0i^0#0#000]0#0y0U]0#2#z00\0#00C#H\  
0#T0#00[0#0000@[0##0Z0#000?Z0#00D00Y0#(S0#EY0#B0000X0#f0V#PX0'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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0KFAz0070#00y000^L0\_y0#0w00x000oE00x00H00^#x00vu00w000|3#Lw00  
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0#Js0#0rIz0r0000/0r0##000<q0#00L^0n0#B0J00i0#)}|`d0#L\_0#00j,0Z0##`  
eWV0##0003S0#0n0FJQ0#000#;P0#0!]0z00#0#00300#0T#0P00#`##w000#\000000#0#?#P0#000#-  
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#Y0wK0#00@5K0#D0000J0##b-m0J0#tw0>nJ0##0 F, J0##i000I0#02B#0I0#0  
%00gI0#0##0'I0#0Cc00H0#T0  
00H0#t00#gH0#0000'H0#l0070G0##000G0###5#0###5#0###5#0###5#0###5#0###5#0###5#0#0Vx#RIE  
##(0##2#=######I@#####\$@#####@#####0?0000000?{#0G0z0?  
#####'{gen}: dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0##@#=######0#0#0>##(00T0>#0000#?#@I@90#?  
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0#02W00@0#00#B0#<00ZOC0#0#`00D0#X+#R0E0#00%9G0#0w#00H0#0□~00I0#00j0#K0#0C



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Q0#R0K0#R0#t0##0R0#D##0XS0#R0L0#T0#DpE0T0#Z0#0YU0#\^ 0#V0#`@0  
%0V0#00@HUW0#0#`f0W0#0#[00X0#0mP)HY0#J\*020Y0#0000Z0#0##[6[0#p0#00[0#000I0\  
0#zL0z#]0#>0f0]0#>[00j^0#0#&0\_0#&(0,0\_0#Jz00(`0#0:0y`0#

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0\_Tg0#j3Vg0#G#'#0g0#0x#-  
h0#0E#0th0#00#0h0#J000#i0#0Z0Ii0#08.'0i0##00F0i0#0-###j0##)00aj0#v003j0#S0000j0#oL(  
n0k0##0H0tk0## U0k0#{T#00k0#00#?@l0#!0000l0#0000l0#0q#@  
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p0#00W\*p000##0Ip0#007Qip0003  
00p000#0p0 02|00p00|Wj00p000#00#q00-T#q00-  
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020Nr0#U0

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0s00v0vt0s0000#R#t00qk0#6t0#0I`0Qt0#%`ZQmt0#00  
Jt00#X0'0t0#o14m0t0#, #00t0#N000t0#U0{0#u00T0+u0#>#bWfu0000#  
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#0T#v0#.#=K3v0#&#0\*Mv000000fv000t000v00x0\*A0v000#AYv0#I0#50v0000000v0#Q0\*0v00000#w  
000x0#2w00t00#Kw000###dw0'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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#0080;0?#z0'0?0>1#0#0?#0w2#00?##l)0?#?00#00?#0#b"00?0`p0O\_0?00`\*070?00j00#0?#0  
EA0?#0a0000?#000600?##0i0q0?000nJ0?00|a"#0?#10-00?0#,00g?#00n000?0<0#000?  
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Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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`\*BOF20?0070#0?@).KU0? 000#00?0000? 000#s0?0h00HM0?00#0!0?`0B0>#0?`&,00□?000\$□?@0-0  
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@00;w,0?'{gen}: dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
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050000?##0k0C0?000^□?00u/0?@□[00?00000?#00##L0?0N!0+00?00j00?0i0(XQ0?##0□0?0o03  
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dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
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@0000#0?0#G#8Z?0X}0|0?0z0YF90?0N0000?`k>  
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09xY?@0!00F0?0N-30?`\*!0+0?#l0' 000Hh\$

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0?000f00?0p00?p##0R00?p0050`0?0{w0060?#0P0? 0\*03?#S+z0u0?#EY0\$0?0-000Y?@000#00?  
@+h'#50?00&00?@000▣?@0000M0?00L#0#0?000h000? 0\$wo0?@00J#!0?`0xZ.?0Q00000?@0M0xR0?`|  
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0?#00G04?#F00j00?0e000[0? ~0u0"0?##r0c0? 00&z00?`#\]#{0?00MD0?@0## #0? 000PÍ?  
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n}: dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
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0A]i00&30An\w00]0A0#0#700A\*000&00A%l#0[□A0□#00 0AB(0#050A00  
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>000;0A0#000[0A00@#\$|0A<05000AY0g 00A'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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#0i0@0w00=00@.0#0P00@Sql

!@Y#F\*vQ\_mY?  
vt#s##:dy=fmMM@###Z#X@P#@|!IK@p#3#|  
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@v^j\$@@(Egb@U@\7@#@#?c#@#H`i`@<#tW@1'A@#l  
%@# 'i@Y"az@#@#\$7@r@a#)}@N)@+7#@#?  
S#@#K@87AM@EQ/@#@##y@#@#@#@#@#@#@3!I#@#J@]@6|R+@#@#@#@#@#@  
G@#@#|#.v@h@#@\$4  
7@#@#@#@#@Q(@#@|#, @+!/ @s#p@#@g@#G^#@#@#jk@=@@L\*Mph@\_@m@#@#;@  
#@#X@N@#@!@p2#@#@aB@%@Z2@n@l@|@#@#@j@#@#@#@#@#@#@#@#@#@#@  
#@#@#@t|#@Q@  
D@#@#@@ Ogi@1|##7@#@M

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s<cYk0@ !0J00@+#u0000@:80m##0@0g#?iG0@0Y00#□0@00+a00@00#M#00@00S00'0@0)g0/`0@0  
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@00@##X0#0@030NE0@000\*5□0@I0zz00@00000@g0r0a.0@#□#Ci0@0&00b00@s0##000@#00N]#0@ξ0w7W  
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VG0Z#A0=0000#A0#0#00#A0r0H00#A0ÆD00#A0#t0 ##A^0i0;#A00=z#\#A0bI\$0|#A00T\  
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Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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0@0@&0V@o0@#00600@J00y000@  
0a0"0@:G#0k0@0#T0\_00@0000-#0@Le0C0s0@0#/000@0#0#JJ0@x0#%000@#00<OB0@□

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##0@A07000@#000000@0,0x0Y0@0j5-#(0@a#by000@01m0#00@000`c00@  
  
000500@0#h#000@##00#00@;W0}00@(/0j)0@S00D0@0b0000#A0D##A00Y0#0#AH0#00Y#AxoLJ0##A00  
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A0F#y|wA,#^y#o#A0D]00l#A00LP08#A000#□#A0<f0wF#A0h00#0#A]####a#A#2:0C0#A00\0#A00000!  
#AaVv0x#A0%0%Z]#A000<=#A0  
0000#A000^'P#A#~0040#Ac#0A00#Aj0  
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Ag00.0 A[\*^V0 A0.'#0n!A#□/000!A0+0a0P"A0dS#00"A0##m]:#AcM0000#A0~83\*\$AS0#(N0\$Ag#\_0!  
%A40%04%A<d0]0#&A0T0##0&A#00M\$'A0tmY-0'AsF#)0/(Ar0\_0(AZ00#0A)Av0\*Bj0)Ac00s0Z\*A`  
##□0\*AFX0{#z+A0#i0&

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#####I@#####0?  
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A0Y0r}#

AE#0-0##A60  
-0 #A80#j# #A7#00G#A\_0i0(0#A<0,?00#AG0BV0+#AD0a00#A-#1i0  
%#A0,60#0#A00#0,t#AX\$000<#A0F2s-# Ac0#00 !AU`#]0#"A0r0a0%#A06<0#G\$AB##M#u  
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#2AH0000 3A0<oS03A000G004A#x0m#05A0{`Y06A0.0#8A#k#zG#9AdZ0|  
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#!/rAG#hrA=raöra##sA#C00MsA%5.e□sA'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####?#####I@#####?  
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#030@01yzU0@0000 0@:#, #00 @0#0:\<0@

M#@#xP@\_/\$#@  
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Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?###0##\  
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y0eA#0L]#%fA 000#YfA00  
%N0fA0W00###0###0###0###0###0###0###0###0###0###0###0###0###0###0###0###0###0###0###0##  
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|Agq70|>|AM#0#0r|A[0  
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Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?###0##]  
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HA(@#H  
e0A010m 0A0#>0A)1#0:(0Ab#0DÍAS0KJ0`0A#00a#0A0, ez00A08@ay#0Aw0#00v0A0UQ00:A000\$[!  
0Ap[:0dx0A0%lđБA|#g0#\*0At00>'0A000#00A00700=0Aw0CF00A#03  
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0s0A#Od00AV?PI#u0A0x5700A#\*jN#>0A002?0A00#0=ġA ,0a\_#0AI0P00M0A00#0Z00AK00k0  
sA+0000#0An+00Yg0A0VQs000Ax02I00Ar3i0AB0A0X0M000A0B0X0ŕA0#0Qu#0AJ000o 0A0s#0#0A 0N  
0###0As00#0Y0A0e000 AB00o00A

[0ÜI0A#/Fh#00A0-  
00H0A`00>, @0A0y0Ff0A0-0D#0Ax0g+=0A0t}00A00##v0A0`0#0@0A0###000A' {gen}:  
dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0##]\$0####`0VA00#S4)WA]000Towa!  
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0ZA0R0#0ZAe0L0#)[Aa0[0Px[A!0(00[A0#e###\A##000n\A#"0p00\  
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0A7N0>0i0A00b000Az0a##0A#0q00#0A-\$00SX0A000b(00AK7 #vÿA70#=#0Ap0}N0A###]\$0###]  
\$0###]\$0###]\$0###]\$0###]\$0#0Vx#RIE ##(0##]  
\$0#####I@#####\$@#####@#####e@#####0"^A####00>A#####j#A#####'{gen}:  
dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0##]  
\$0)0##}00A)0##}00Ar.#0000A{LI0000A##;0000A0[t0Y0A04[0Alst0&00A0Y00Z00A:#0^000A0E00  
Ω0Aq#0<#00A0X##H00A000!0Ap! 0#000A:0000A080#00A00B(000A0`00s00A#000Ap#0▯  
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▯0ANW##000A000#00A0r^?000AC00#B00AN\*P.000A00#B100Aa|  
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00>d0A0#>0=b0A0dA2`0A0J-0#^0A00s00[0Ab00Y0A#0#pxw0A00#0VU0A0 =0  
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00#kD0Ax\*0u0A0A00 09?0A0  
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h0000AS00#0AV000000AV00)0AM0[000A0}e'#W0Ab#NCSL0A0Z1'0a0A^0#W0A#0A0gL0A0\*^00A0A##  
T]060A00]) ,0Ai00 -!0A0~##H#0A0;0bZ#0A40 d#0AN##  
e0~A#x0]0~Aj^00M0~A#z0050~A##[0#0~Ak0020~A0##00~A0#0Y00~A#0##D0~A0(j  
0~A'{gen}: dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0##]\$0?0.0#A?0.0#A00#0#0#A00wI  
#A\_00.|##A0#0!#1#A^0m0UJ#A)m000f#A#0\*'l0#A+#00e0#A0i0`0#A  
0&I00#Ap 00B##A@00\C#A0[6  
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#A^00D=#A0##>0m#A0á00#AKE0#00#A0=000##A0dEa01#A0 {c#c#A0#V00#A0Hi000#A\0B0|  
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00#AY-  
ac0#Ac:0t{#\$A0000a(\$A:d0#IASA0'Y00Z\$A0')<#s\$A0207#0\$A00#00\$A00v0u\$A0Y000\$A000k00\$A0  
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B`v'A#0"0'000#0'A0H%000'AP0F0Q0'AP00 #0'A=  
700  
(A000\_Z#(A#G0?0;(A0D00T(A001k6m(A#%



01(A0h#wX0(Am[000(A0g00b0(A\*#0z00(A}700S#)A00r  
0#)A0x□v)1)A0M#00I)A0zh00a)Ar^y03z)A0#71}0)A80t000)A1p000)A0Zk(0)A#0RrP0)A#0q00#\*Ad  
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A00^0|0-A0A.l0-A8=00J0-AL0}##.ACz#90#.AB000z-.A0w#m#C.A00000X.A  
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#/A00#00#/A00m0+/Aaf0□V@/A0^#>0T/A#0L0wi/A0  
^%0}/A00#F0/A'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?###0##]\$0?  
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†#AL4##v0#A00z0##A0jŠ+D#A300(v#A0`0Ĉ0#A6#A0M0#A00J0n##Ap0000A#AR0/  
00u#A0#Q#0#A00D00#A0t'00 A0K\$Bb\$ A00#9? A00(0BZ A00J0□u A  
9!00 A0#8000 A000|0 Ab#K:00 AJ0#00#!A00B00#!A10t0e:!AP#0'0W!Agظx0t!A00[□!A0?000!  
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0\$A]K>0

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0t#;A00Uv3;A#Qd0□\_ ;A000#00;A00G □ ;A##000;A'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?###0##]S0?  
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Time={timeused:s}C00#C00#####I@#####?#####I@#####?###0##]\$0?  
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#A00{0{##Ak 0

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KA0\*0;0xKA#03I0KA0G300(LAp=(0&0LA000Z00LA  
0-#02MAR00D0MA0S#00MAFa060?NA□R0EŪNA00#0#0NA0010NOA0)d0i00Aq5000#PA\*W-%0/  
PA00PCs]PA0060PAiK0##0PA"0c00PA 0x00#QA#290#CQA0iJ01qQAL000c0QA,  
∪000QA0KU000QAwy#AI\*RA80v00XRA.'lc#0RA00X000RAH0#0  
0RAX#m0#SA6[00#ASAhjG0oSA0#Nt.0SA08Z00SA8yZ0N0SAŪ0



0)TAS#"0mXTA0iW00TA#0□0TA0#L0#0TA800T0#UA000\_0@UA'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?###0##]\$0?  
0.□0#A?0.□0#A00#0#0#A00wI  
#AR#On{##AJ(,Y#1#A#20#PJ#A0UN00f#A^}0e0#A#0□j0#Ap0#\*00#A>0\k00#A0;#00##Aib-  
0{D#A#:0L0o#AA2o0#A00?X0#A0000V0#Aq0GT(#A0#<yY#A2d0~i#A0#00I0#A!E0 0#A006?  
#\*#A000a#A<#z00#A0[#a#0#AKf70Z##A#0Y#0#AM00y00#AR000'0#Ae06y# A0B00'/ AI50[8T  
A00800z A[]0a0 A0K0#00 A]0r(10 A0+0#&!A00# 0U!A#|0p0!A00m>00!A8#qp00!  
A00w20\*"A\j`v0f"AB,;00"A0#0#\*0"A0(0`\*#A<C^|0q#A,00d 0#A00g00\$A050#[SAH0#0\$A0IO###  
%Awq/0#d%AE00000%A0400'&A0-k0Q0&A0r#0&A`j#]0j'A4;p0#0'A00Q  
qW(AK70#40(A000fU)A0M00#0)A#0:0Xe\*A0#0070\*A0IbFç+AS00/#,A00f #0,A000m0^  
A0T0(0#.A#:06G0.AuR000a/A00W#0#0A0b0%0h0A0#"X000Aa0#0#+1Ago0#1A cy0901AZ>@  
'a2A0#0.002Ar00 0<3A0.¡K03A0&0cy"4A#0%R804A00K0#5A0#00h05A0n%00

6Aj#0z6 AE'F#c#7A6300y07A00gs# 8A00:0?08A  
o8(089A00zv#09A□Q000[:A#6100 :AGaKt{0;A0`000"<AF#00#0<A0S000]=Añ00.0=A0(#Jy>A0#000H  
?A[L0030?A#iO'0M@A;00zg0@A00E0#0@A059#0TAA{00,00AA0a\$? BA60\00eBA0!KG00BA+0xL0  
CAH0#%0□CA09z7\$0CA0000]ADA!00V00DA#(#00#EA0T000jEA0'00#0EA;n0/6FA00#0.0Fap3YT##GA00  
0p0mGA0#c00GAB□0#BHA00#0x0HADp\_00#IAQr#000IA400#00IAP(##cJAL0#>v0JAm#Cf0BKA#!  
LJe0KA0#□00\$LA0#0=.0LAFk00#  
MA000}MA5#000MA|0ra0fNA\_U >0NA000QOROA0g0000AN0#d# PA00M0[PAFD#0#0PA0?0000PA,0#  
-#QA0A40#NQA0100>0QAV^0:00QA00IE#RA00#E DRAf0#X30RA0H0|0RAY0#00RA `010=SA\*0-  
D0|SA000,0SAX00000SA02Ea-:TA<00yTA1□&`0TA\_]l0-  
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000000#@#####0?0000000?#####'{gen}: dt={timestep};  
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0#0#@0k##00#@> 00#@g30S;#@0Q0V0Z#@00->0Z#@xyR!90#@#0\i#0#@B#w,00#@000W00#@XP####@  
% 00#@'0y]#@j 00|#@0&#0G#@#`0,#@0q0  
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n00+@000+@0#\*Q}#, '@|0a#, @T|J{]8, @' {gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?###0##]  
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7#@0000T#@00'0q#@&Iib00#@0/  
#000#@0FS0'0#@vL0000#@000##@0<0##@00n08#@Yp000T#@Z##l[p#@0+P0#@o000<0#@'000{0#@#f0  
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Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?###0##]  
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00B#@00,00I#@30#MP#@w0m\gV#@k{0:\*#\#@EM-00a#@0=L#0f#@00#00k#@000ATp#@□[0t#@00s0  
y#@iG00\*}#@  
0z#&0#@0<,0#0#@000wJ#@00Ji0#@]m=0=0#@bMP#0#@30#f00#@0<<#T0#@"00/#0#@0F00#@0 9#  
5=@#0#00|#@#0#000@#ف'#R0#@0#0Ik#@00|%b0#@0#0a/0#@005~/0#@7000e0#@L0gp00#@00X^00#@0  
g0\_l0#@0p0#00#@?y00 0#@00200#@0A##00#@0svy#0#@000L0###@00<0#@000  
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10}0#@0.f0#@;0qm,0#@T00000#@#000 #00#7Q0##@;r0J0-  
#@C00#@#@d+0qvR#@0k+e0d#@0L0s0w#@#0L0M0#@=#0t(0#@CL#5"0#@00z:0#@0"\_0q0#@0=0L00#@##M  
0;0#@q0000##@#tI-\$#@Q0#M8#@0#0#:L#@0000D`#@0v00mt#@\_#R000#@0-  
YP#0#@P0V000#@0000;0#@q~\000#@0)#000#@#0000##@0  
0(0##@0#M0#/#@00A%iD#@'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?###0##]  
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0#@0]n900#@gã0#0#@  
o0000#@z000#@0-0;l0#@0#n080#@00sDo0#@000#0#@.00S0#@g0HI"0#@f0#000#@F#@000#@000#@X  
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ح0#@0V0&W0#@#[0040#@#`0LY0#@0S6YP#@00rx00#@0#VQ#s#@0uQ=0b#@0#lmXS#@0kD0]D#@000#6#@  
]0^(#@0000j##@0k0#3##@0V0>0##@  
000#0#@0+0#@00###0#@0##000#@090ki0#@&o`j00#@00r0#0#@00M0\*0#@00L##0#@0  
%0#0#@0Q=v00#@0Y>)0#@0E:0B0#@00#sa0#@0V00Q0#@0r8#0#@:f0000#@#00l00#@f"m0#0#@J0a0#0#  
@0Z-000#@00,%0#@vij0S0#@'0!0=0#@#0?00#@00##;0#@#ODH##@000##  
#@0000q##@0P#F0\$#@^0(0F1#@w00b>#@000>0L#@##0rw[#@04000j#@0c0axz#@0G000#@eK#q0#@070#  
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|c0##@040#05#@# p-0N#@Q00g#@0},0#0#@'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?###0##]  
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#0#@6,0#ä#@y0ys}#@0t00j#@00\#JY#@8##c|I#@0#0#/#;#@00ч].#@0>0###@0#K0###@000I##@00@#~  
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00##@0Q0w`\*#@0/0&#R#@0#0X!  
z#@rC0#x0#@p0"0#0#@0X###0#@00S0K##@00000F#@#0\_00p#@0M0\*ũ#@w000.0#@IUae00#@00==0#  
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\_#@(#@Pf1#@q □##@bu#C#@#####J#@+Mi##@#ah#@&PS#@'Yx#@6#W#G#@Y, ;□  
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j#@e00d0#@00x0K0#@#ID0##@90002C#@0>0s/j#@#M00#@K#C040#@RC'0:0#@0<0#0  
#@0#0#F2#@QNw~I[#@0#0"00#@#00E0#@Ia#0<0#00|0#0##@%00R#-  
#@x500w#@50\_0&0#@0#0000#@#000d0#@NS^5s##@0dD002#@0000j\_#@l0s0R0#@KL]0#@#0:q00#@Q0v0  
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Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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0\_0Aj0 0000A00A000A0LT0I00A0#^`000AlnN0{#0A^oPcH.0A00007Q0A0r`:Jt0A00"000A0 # ξ0A#  
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0.0P0AB 0"Ti0A00f000A0.  
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dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
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|Agq70|>|AM#0#0r|A[0  
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Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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□A0W0]6(0Ah000[r0A00#~%00A0a00#0A0KT00T0A00<0f00A00#00A0#V>0<0Az0.0000A00000  
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h)\_#0]A0}-00]A@M#0b0]A2000kM^A0#%.T^A00W0^A;□0W\_A0000y\_AU000#`A0l##T8`A0n#00h`A(\  
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b0A'{gen}: dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
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HA(@#H  
e0A010m 0A0#>0A)1#0:(0Ab#0DÍAS0KJ0`0A#00a#0A0, ez00A08@ay#0Aw0#00v0A0UQ00:A000\$[!  
0Ap[:0dx0A0%lđБA|#g0#\*0At00>'0A000#00A00700=0Aw0CF00A#03  
00A00#70\0Ar"R00A0Hz0R"0A'nU00A0THu00A#0\  
+#T0A0<w3000A0DШK&0A0>H0R00AY0>;00A9nH0>k0A#0#0% jA#M0PYJ0A0P00  
Њ0AnBIs0.0A00#0s0A0N0#=#0A#EG#00Ad0V##0A000E000A.W0?0A0r0Sw0A00##00A0B#  
0s0A#Od00AV?PI#u0A0x5700A#\*jN#>0A002?0A00#0=ġA ,0a\_#0AI0P00M0A00#0Z00AK00k0  
sA+0000#0An+00Yg0A0VQs000Ax02I00Ar3i0AB0A0X0M000A0B0X0ŕA0#0Qu#0AJ000o 0A0s#0#0A 0N  
0###0As00#0Y0A0e000 AB00o00A

[0ÜI0A#/Fh#00A0-  
00H0A`00>,@0A0y0Fr0A0-0D#0Ax0g+=0A0t}00A00##v0A0`0#0@0A0###000A'{gen}:  
dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?###0##l+0####`0VA00#S4)WA]000Towa!  
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0ZA0R0#0ZAe0L0#)[Aa0[0Px[A!0(00[A0#e###\A##000n\A#"0p00\  
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%e0lAI00#0mA0X400anA0#0#o1oA0000L#pA0 0x0spA000@00pAR0#]0]qA000qAE0`00WrAz0]  
\$00rAt00##bsA0q00sA#0<0Y}tA|000x#uA)~:##0uA!oU GVA0

gW00vA6q000wA!o09xA00F040xA00[Y00yAya



00VzA0}c00#{A00#00{A-000  
0|A002m}A0C0gz?~A04□0#□A0^I000□A#0

00j0A\_000pA#(=#0T0AQ\0Y0A0H&00I0Ar0Y0+ÂAL\_T00I0A##0:0A##\*#0T0Ab(00qA/  
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+##AmU#pA`[azA6X?A 000A000

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00A00u\_'0A00[)000A0#=00!0A#

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,0c0A0e#0J00Ae0000#0Awk0S0X0A40.0#00A039#0#0Au00-0U0A700000AJj3\i#0A}  
%0G0[0A040A0# 00#0A00#0i0A0I60^t'AP00!"0AV0-0000A#44!n □AF=0#0=0A  
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0A7N0>0i0A00b000Az0a##0A#oq00#0A-\$00SX0A000b(00AK7 #vÿA7  
0#=#0Ap0}N0A###l+0###l+0###l+0###l+0###l+0###l+0###l+0#00U#RIE  
##(s##l+0#####I@#####0?#####'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
###0##l+00"a00A0"a00A0 0Q0A0ÿa000AF0^  
00Ad00#T00A0##0#00A0S0j0IsA0yW00جA0000#0A^0tX#0A0#00C#0Aqy0>0%0Ax0000=0A

M&XvptAN A#MAm hAP/ .AA% ;IAMS ZDAAoc |  
JA#7

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!

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00A1P#000A^#00  
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0A000#0]0A0000AS00P00Az`y#00Atr0#0#0Aj0Q0  
%0Az#Ä0G0A0E#`Hj0A0000A#K00i0A0000çAVP00:0Au00!0#0A=0#00=0AJ0\_ça0A000A0AB



u.700A0iv00ηA0#<000AD[000#0A0@0  
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0q0A00:m000A@@00[0A00[4k0A~00\_#0A0090M:0A0%□ c0A0000500A#0 G000A0WF'\_A□^#  
0A]i00&30An\w00]0A0#0#700A\*000&00A%l#0[□A0□#00 0AB(0#050A00  
C0a0A00□A00}0000At5q0e0A#0R00#0A00-a0A0A#00Yo0At;#8000AQ0C6

°A

>0=00A00=')0A#z0[0X0A#/Qk;00A000v#00A10q0#0A0#0t0#0A.0d:I0ALIrJ>z0A0k000A#00#50A0#  
#p0#0A0000 0A0c0##:0A@Y0evS0A0000#m0A0#t0;0A\_00=0A100l00ADi0#-00Av0'I000Asç08  
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¿#0q00A(IA00Ambk0>00A000Yi#0A00G00#0A000{H:0A#xó0V0A0Q00g0s0A(#eL00A0Z#0600A00K|  
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#`?00AH#00000A\M002#0A

>000;0A0#000[0A00@#\$|0A<05000AY0g 00A'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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0(o0@00D0%00@v#0SH00@v#000000@41000000@"00#\_0\$@\_0G00N0@0  
0mN{0@0bw000@0#0+)00@T0T0

0@1ma#000@f000v0@00i00@|#g000@070@0\${0.Y0#b00,000Q00@#1\_vj00@0BC#G%0@oi  
#0i0@0w00=00@.0#0P00@Sql

!@Y#F\*vQ\_mY?  
vt#s##:dy=fmMM@###Z#X@P#|!IK@p#3#|  
"#l,\$>%##X#D@T2l  
y@x@2.wlz#@<8#Q@S@{л#@#Q@#9#5@F>o@äxZ@' @  
@v^j\$@@(Egb@U@\7@#@#?c#@#H`i`@<#tW@1'A@#l  
%@# 'i@Y"az@#@#\$7@r@a#)}@N)@+7#@#?  
S#@#K@87AM@EQ/@#@##y@#@#3!I#@#J@]@6|R+@#@##@#  
GG@#|#.v@h@4\$  
7@#@##@#Q(@#@|#, @+!/ @s#p@g#G^#@#jk=@@L\*Mph@\_@m@;#  
#@#X@N@' @p2#@@aB@%Z2n@l@l@j@#@#@#@#  
#@#@t|#Q@  
D@#@@ Ogi@1|##7@@M

0@E0000;0@ aF Tk0@g □ C00@0J!0z00@0eh000@#020,0@i0#00]0@000  
#00@([#0000@0W#]000@00h,\$0@020(W0@0000%.0@"xD,μ0@00#"#00@X0000#0@!  
00IIW0@##K0000@0l0r000@0 #m(00@#0Я0(0@'0s0^0@008!e00@0#2000@00A000@30#4040@|  
s<cYk0@ !0J00@+#u0000@:80m##0@0g#?iG0@0Y00#□0@00+a00@00#M#00@00S00'0@0)g0/`0@0  
01#00@000?  
@00@##X0#0@030NE0@000\*5□0@I0zz00@000000@g0r0a.0@#□#Ci0@0&00b00@s0##000@#00N]#0@ξ0w7W  
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0@f □#I0@^S0H#00@00H#a0@#0



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VG0Z#A0=0000#A0#0#00#A0r0H00#A0ÆD00#A0#t0 ##A^0i0;#A00=z#\#A0bI\$0|#A00T\  
t0#A00(#S0#AL>0I00#A0û0h##A 0x0!#A{00G0B#Ae0k0ed#A0#H00#A'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
###0##l+00"a00@0"a00@0002000@,00000 0w 000@00wRx00@00]eq00@000c`00@<00+0#0@0#0?  
0@0@&0V@o0@#00600@J00y000@  
0a0"0@:G#0k0@0#T0\_00@00000-#0@Le0C0s0@0#/000@0#0#JJ0@x0#%000@#00<OB0@□

0Ä0000)kC#/0@0#%0#}0@#t0#000^ ]I1(0000v0000}00000@I00f\_Q0000`Z

00@00i040@F@%0%00@00vY#20@08A0u0@#0S00J0@000"00@0W000@0A0F7(0@W00M000@#

0010000040#P0@  
T00##0@00LLp00@0y w000@:X#  
#00@0x0#00@000000@0<e400@00G^0@#00|#00@0Y0000@0#00H 0@0OG)#00@t0-d0l0@n 0  
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000500@0#h#000@##00#00@;W0}00@(/0j)0@S00D0@0b0000#A0D##A00Y0#0#AH0#00Y#AxoLJ0##A00  
00+0#A00\$0^#Ap#eD0##A0a##b0#ALda000#A0#00P\#A+m#00)#A07#020#AF000l0 Af0&600  
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A0F#y|wA,#^y#o#A0D]00l#A00LP08#A000#□#A0<f0wF#A0h00#0#A]####a#A#2:0C0#A00\0#A00000!  
#AaVv0x#A0%0%Z]#A000<=#A0  
0000#A000^'P#A#~0040#Ac#0A00#Aj0  
x0a#A#0z□0##A0N7;00#A#d0JA#A00{#rS#A0y000##A000#0#A0j0U#0#A0:φ0|#AF0Gæ'  
Ag00.0 A[\*^V0 A0.'#0n!A#□/000!A0+0a0P"A0dS#00"A0##m]:#AcM0000#A0~83\*\$AS0#(N0\$Ag#\_0!  
%A40%04%A<d0]0#&A0T0##0&A#00M\$'A0tmY-0'AsF#)0/(Ar0\_0(AZ00#0A)Av0\*Bj0)Ac00s0Z\*A`  
##□0\*AFX0{#z+A0#i0&

,A2WR00,A0##<T5-A?00qX0-A00s00d.A0kC020.A`0#[#0/A0#a#7#0A#شحم0k0A#0St00AT0#|  
1A0x000^1A#0bE001A0uU#0#2A000#

Y2A0W0402A10%00#3A.00,#Z3AR000=03A0`10\* 4A00)00a4A0pK0=04A0&0a#5A)B00@p5A 00#0 ڃ  
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a8A00@0Q08A~00GG\$9A#00009A00ÚA09A000GDN:A#FZ  
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dt={timestep}; Time={timeused:s}C00#C00#####I@#####0?  
#####I@#####0?  
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0@#0X00V0@#012L00@дGt400@.0K0#?0@0\_0000@###0a#000 0;500@B00)60@0



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060%00@00T0300@0;0(\*00@###U000@#0Q0#0@00|  
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0#00##Abs1F#0#An0q0iJ  
A0Y0r}#

AE#0-0##A60  
-0 #A80#j# #A7#00G#A\_0i0(0#A<0,?00#AG0BV0+#AD0a00#A-#1i0  
%#A0,60#0#A00#0,t#AX\$000<#A0F2s-# Ac0#00 !AU`#]0#"A0r0a0%#A06<0#G\$AB##M#u  
%A0#0000&A\0g>00'A#003TP)A0-0#60\*A0□ f(,A0#30#0-A#z+0:/A0Gx;0\0A0w00BD1Ak0>i/  
#2AH0000 3A0<oS03A000G004A#x0m#05A0{`Y06A0.0#8A#k#zG#9AdZ0|  
06:A0q#0];A#y)00<A0\_ct]0=Auo\*C #?  
A:svR#&@AB`Lt&0@A#00#uzAA0n#00\*Baz0E#00BA0#)0[0CA000  
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#!/rAG#hrA=raöra##sA#C00MsA%5.e□sA'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####?#####I@#####?  
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0@0sr/0K0@i#i00@c000#00@0w0##h0@d#R0000@>#  
0i00@:(□E0@#w00S#0@&00@c#0@050o 00@0020@=00h#00@000j!00@0#?  
0000@#00w00@0c<I000@0##0l\$0@#]/0v00@VF<.?00@00  
#030@01yzU0@0000 0@:#,#00 @0#0:\<0@

M#@#xP@\_/\$#@  
.#h)i@^2#@X-#AQq<#Ay[##A3z:1#A(#@##A#6?Az<#A8  
B#AQq\*#Ak\B#Alm#AHy8\_#AYTv##ADcd A=uG###"A\lnx#A5]#  
%A6K' A#ζ#)A000V, AϒQv=.A##S0AF&000I2A#00Y003A000A05A0\$0<EL7A0, 000.9A0  
- ;AB#IoJ=A.0%v00?A00T#@As#"0\$-BA100zCA00K000Dap00#0GFaxo00GA00L:YIA#%K00 JA  
LA00#0xNA\v00M)PA0e/ X#QA-#000#RAj@e#g'SAU0a:09TA00T#"UUA00w\ :zVA00#0  
WAF/0#0XA06z#0"ZA"0v0m[A0#0-0\A)0#0#!^AL000p\_A00w0#} `A  
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صWA#5\$L0:xA#  
A000xA0##n0yyA#0U&0#zA##000zA0s0c{AMx000 |A0@0#Z0|Ad000EZ}A{00' #~Az#+R"0~A00#]0A  
%0##0#0A 0'0J]0A00#8000A#S0s#0A0001#h0A00#`#0A0y0V0#0Av0#%0w0Aa0  
0xA+Ts00/0AKz#000A0X00AHF9#0G0A0K 0 A0400#0A0t0c0A005wAA\_0000A0o0#00Aa#0`#0A0|  
0HvF0A#~-% D00Azt}0y  
0A00a0#m0AX0# #JA  
00#u30A00yN600A0'j0U0A0m000\_0A00#0CA0((30)0A0#05a00Am0aj?  
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#M00l0AS0ل=00AS0\$#0.A'{gen}: dt={timestep};  
Time={timeused:s}C00#C00#####I@#####0?#####I@#####0?  
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#06000@:00^00@Sc0\00@0\_#I00@0## br0@90v-0-0@/0b00  
0@0#>10#0@0#0cd90@#00000@00040@#0}00#0@##0XoD0@00ug 00@000b0d0@b00<  
0@Z0#0\$0@0M0\*0}0@0]  
0090@|#v00f0@000{5##AR00A.#A##0+N0#A0s0#A 002#0  
A00#l5#A0x0v\#A0\*m<00#ABZ0a00#A0j3+0#AT5 0/0#A00#0#0 A0#0ws1#Als#0#0%A00#  
0(A600c00+A0,0#η/A0p+0t01ARK=K#03A0js0#d6A\*v00:

9A000G00;Axq2?0#?A|#0#HAAnq00%CA00j0'\*EA]0'00VGA<jTi}0IA#0@00/LA#0j00NA(yan00PA  
□000dRA#m(<0#TA0:000UAM#0i00WA0@# yYAT7τ<0[A000#0]A&0l0U0\_A000cB#aA000#0VbA0]0

0cA00y'0dAzv 0\FAX0R0%0gAa{0Z0SiA  
%0>ey0jA0(#j00lA#K6.`4nA00P#00oA0yX000pA00"010qA&X0&00rA0=pz0sA000c0tA0000i0uA0#.0}  
0vA00\_00wA300#yA000v\_7zA0f000c{A0#0?>0|A000=#0}A000%z#0A#0j0#,0A0#&y0ÇA1,#EM|  
0A00#00(0A 0 x0\_ A0#\jN00A#0#00@0A^kJO+0Aj0nK00A0\*#@#r0A@05020A>~000A 0u  
7i00A(0#2000A#00#\$N0AS\$00F##0AFq#@`00^0 0 A0z0s00A##J0e0A0#000=0A



00#0#0AI+5[0y0A0U00A70#V0X0AV0L0dA0\$0'G;0A0N]#0A000dN!0A\$00j00A130z0  
0A(00\_k00A050000A>0#  
Fn0An000D0ApT0G0^0A00bI^A0SA0ER0AK0PF0A&000#H0A-;RQ00A000nB@0Ay0-  
00A#00:0A0T0B000A0#0r#70A00LJ 00A.00#x50A00\_0[00An0R0050A000eu00A@0#  
070A0A0#0A0@#0

:0A0wQb0A00#00#0A0Q 00]0A0;0#000A^\*g0#\_Av000@#0A0#0S%[0A0#0A0<0

#sAr0Z+##0A#00N0S0An0#0h00Asc0H0A, #0p#0A #000H0AaY0##00AHP0-~0AIM0000A@0900A0|  
0(mu0A0#0#00A000&x0A0#  
Ž'0A00000b0A#0#0%0A00#0|A#aL#[#0A0(0y0M0AwP0d00A000X0|A0N70#0A(\_0N+70A0##0@q0A  
%6A0B00Ad>&030A0000##0A##000X0A?G0д00A00I0uAA0N#/#0A00:Q0?  
0A0#0\*0y0A.\*\_0C00A0G;500A0#&#0&0A0B##[`0A0#00#00A00##00A0000  
0A0R0-G0A00Ypc00A0.G0V00A###1Z0A###L+0###L+0###L+0###L+0###L+0###L+0###L+0#00U#FORM##BxWS  
EDFORM##BLDGEDFORM###0DGCPVWRD###n#  
#0J0#####\*+.136027[F0P:0Mh0 0\*{0#00!0#07090+I0{0#0T0  
0s0i0o0p0#0W0u0x0#y0"0#0#0#00b0#o0g0#0#0#0#;0-0RSDEF###i###0.97###0.35###0.5###1#  
\*##( s#=1,0.52,0.94)###0.8###0.75###0.09###(00##^(1/0###))\*0#:#(0M##\*(0

##/00##)^0###\*(0###\*0###\*(0###/00##)^(1-0###)#03###((0###\*0

##)+&##-02##+0 ##)###(0###\*0###)\*((0  
##)/(0

##))'##((1-##)\*##\*  
##)/(##\*##\*##)##N##(5##-##)/#####2#G##-M##((G##)-M##)\*(2/\$##)##/##\*##\*(##/M##)^## T##(##,1,##)###2380###(##/##)-1#####0#  
T##(##,1,##)##4##-#!##4##\*0.8###0.005###(##-##)/#####6###1.6269#####\*##\*##\*##  
##-##(##)/##(## T##(##  
##,1,##  
##)###2###12##(##

##/0M##)\*(0###-0###\*(1-0###))\*(1/(0###\*0###))# T##(02##,1,02##)#  
T##(0###,1,0###)###(0###-0###)/0###0,###(0E##-0###)\*(1/0\*##)#0D##\*0##  
\*##( s##=1,1000000000,6000000)##(1-0###)\*0  
2##((1-0###)\*(0M##^(1-0###))\*(0###^0###)\*0###\*0###)# T##(0M##,1,0M##)###(0M##-  
06##)/06###(02##-0-##)/0-# T##(0###,1,0###)#0!##/0  
###(0###-0=##)/0=# T##(0

##, 1, 0



##)###(0

## - @##) / @#### / ##### ( (###\*

```

##)+&##+&##)F *##( s##=1,(0.1*Q##)+(0.9*Q##), *##( s##=2,(0.9*Q##)
+(0.1*Q##), *##( s##=3,(0.8*Q##)+(0.2*Q##), *##( s##=4,(0.7*Q##)+(0.3*Q##),
*##( s##=5,(0.6*Q##)+(0.4*Q##),(0.5*Q##)+(0.5*Q##))))###0.7###(1+F##*!
##)^"##*M###(1/Q##)*(Q,##-Q##)# *##( s##=1,2,1)###(Q###)/(Q$##/2)#K(##(((1-
Q###)*Q###*Q###)^(1/(1-Q###)))^*M, ##
(1,1-((1-Q.##)*(Q###)^Q###*(Q6##/QM##))###(Q##/ T##(Q##, 1,Q##))-1<
###(1, ###(Q###*C##*(1+Q###)*(1-Q.##),
(Q###*C##*Q.##))#SDIM####SIDX####SDOC###Qvepsilon=( epsilon1-1) / epsilon1,
epsilon1 is the elasticity of substitution between intermediate goods. 0< epsilon
<1WParameter that affects to physical capital and own knowledge in Coob-Douglas
technology2This parameters specifies effectiveness of labour #*Initial value of
labourIF(RUN=1,0.95,0.55)#Marginal propensity to consume'Paremeter in accumulating
human capital$Parameter in specifing human capital\Final production hingis on
intermediate production, number of intermediate firms and epsilon Production of
intermediate firms,Production factor. Physical capital per year###Price
effectiviness of labour&Accumulation of human capital per year#Adjusting human
capital#Its inverse is equal 4 year+Knowledge accumulated by intermediate
firms###Quality in labour market#Effectiviness of labour delayedQNumber of hours
per year available by population#+Population porcentage devoted to
production#Initial value of technology 1#Salary delayed##!Parameter in technology
formation#Growth of quality of labour#YIt determines the porcentage of labour
income dedicated to consumption at initial moment.#Total cost of
labour#####Consumption delayed#Labour delayed#(w(t)-w(t-1))/w(t-1)###9Initial
value of physical capitalIF(RUN=1,300000,2300000)##&Accumulation of own knowledge
delayed #Technological growth #Growth of consumption%Accumulation of human capital
delayed##Growth of human capital#Physical capital delayed#Growth of physical
capital#w(t-1)/w(t)#Q+IF(RUN=1,IF(Atractiviness_to_learning>Atractiviness_to_Workin
g,(0.9*Atractiviness_to_learning)+(0.1*Atractiviness_to_Working),
Atractiviness_to_learning),IF(Atractiviness_to_learning>Atractiviness_to_Working,
(0.1*Atractiviness_to_learning)+(0.9*Atractiviness_to_Working),
Atractiviness_to_learning))X1/q represents the units of investment (final output)
that are transformed in technology#Investment in R&D#####tMIN(1,
MAX(Productivity_Ratio*Wages_Ratio*(1+Interes_Rate)*(1-Labour_1)),
(Productivity_Ratio*Wages_Ratio*Labour_1))FLID#####DLDP###N#####
#####
#####2#####M#####

```

#####0#FLST#####dd##dd##dddddd#####FDEF###H#####

#####H###OH###ML####L  
###1####1###FSTR###

#####FORM###bDGMDCVT ####DFN #####c###%####MCL1#####EAU  
#####GSU #####GRD #####FORM###DGPRPTZ #####40##DNM  
###]X##,#winspool##\mateco8\HP LaserJet 5P##LPT1:##^###WV^##t-  
060F0qP##"##F0##060F0#MDE #####MDN #####\mateco8\HP LaserJet 5PMSV #####  
MDV #####MFI #####OCMOR #####MPS #####MPL #####MPW #####4MSC #####dMCP  
#####MDS #####MPQ #####XMCO #####MDX #####MYR #####XMTT #####MDD  
#####A4#####  
#####DINU"###4###&n  
#####  
#####  
#####  
#####  
#####  
#####13MD##4#V#PGZ  
#####FORM##/@DGSTLHD #####F#LHD #####B<##LHD #####2#LHD  
####,(##LHD ####U###LHD #####LHD #####  
##LHD #####>####CON #####rA####3CON  
#####+#####8<#####TCON #####!F#####;5#####>CON  
###e#####2#####?#####NOS #####ILK ###'#####  
~#####1s0b#>RyQ#####CON #####F#####|E#####CON  
#####9D#####ENOS #####AUX #####o=#####h##  
#e#####?AUX #####+d#####X####k#####NOS #####ILK ###!  
A#####Ss0x0z0t020e0R#00##000#ILK ####%X0b#####k0F'0z0?0#0n0Z0000 #000#LEV  
#####S0#####)0>##

0`0##000000)ILK ###"#0#####040i0^0!0N?0#90%0 070#0000FLW  
###"#0j##&###0d0F0#0F#0000 0#####000AUX ###0G00#####0:0W###060000000000CLD  
###0#####0U0D000#NOS ###ILK ###"#0#####0:000#080\*0f0#0Q000#7[0000NOS ###AUX  
###W0>#####0#<####)0000000#AUX #####'02#####0#0##  
#000!#000#LEV ###0B04#####0k0L##

0000J0000 # #ILK ###!0!0#####0#+0@"0U"0z50000 #0#0#ILK ####0=0V#####c?  
0S\$0530#9!00 #000#CON #####\*#####E0q#### #00#CON  
####0g'#####0#0#####0000a###ILK ###!)0r#####0# (0y0B0G0#?"00\$#00#NOS  
####CON ####\$#####030#####000m 00ILK \$\$\$0`0#####0 ;000 0j0`0%0y000.  
+y000ILK ###!0J%#####0+0#0#0s0M0@0x=% #'000#AUX #####S#####0{0B#####0#!  
0000 LEV #####0#####0z0N###0N06-0000 #,CLD ####-#####0S0S###-#FLW  
###"0h,##&###0b0U0a0U#0000 #.###,+0#0#AUX #####0S#####0a0f###-0F00000###AUX  
#####0#0\*#####0#0b##  
00000#0X#08#ILK \$\$\$0#0U#####0%0'0=0!0J0C0X0Y0.0 #1.0###CON  
####l0T#####0#0\*####00#00000 #CON #####0#####0^0\_###100#Z#ULEV  
#####0#0#####0 0o###0K0#50&0000 #NOS ####FLW ###!`0&##&###%0o0#0o#000###6#  
`3000#AUX #####0A0#####0#0#####5900000# #AUX #####0R>#####0,0w####B0#0 #4NOS  
####ILK #####090#####0=0e0,0  
000A0#0qg0-0#6000#LEV ####P0B#####0,0#####0\_f0h0000 #0Y#AUX ####I0R#####0\#0\  
##0@0#0;0000 #CON #####y0n#####0/0^#####0 #A  
00#LEV #####[######0#0 ###00#@0000 #+0 #LEV ####70  
#####0#0M##M00#B00000#0#01#ILK #####0\*0#####0;0#0Z0z0v0f0#0rA0 #70###ILK  
###%0U0F#####0.0#0n0#0q0?0 0l0000 #=70#0#ILK ###"0+#####0'0f#  
0#0f0a0;0q@00#<7000#ILK #####0H0#####0#0@0#0&0#0#0#0{?0 #>700##AUX  
#####0n0#####0l0-##  
#00#X###ILK #####0,N#####0m0#0"0\*0#0j060#f00#b0i000#ILK ###&000}#####0#040t0#0@0K#?  
0m0}0000#0o0###CON #####  
#####0{7#####0000000 #07#NOS ####ILK #####0TO#####0{0G0#0/0#0 000"0 #0 #I0i0###CON  
#####0+;#####0w0S##\*0000 #H000###NOS ####ILK  
###&0#0#####0#0m0z0j0m0Z0U0X0#0000#0#0###NOS ####ILK ###  
0VQ#####0#040@0#0#060[02QQ\*h000#ILK \$\$\$D0U#####0(0;0@0#0f020#0,0U0 #W0R00###ILK ###  
%H0(#####0]0#0#0%0.0#0A0 0\$00004020#0#RPT #####0[0c#####



u0#0f080VILK ####M0#####0 0/0,0#0#0#0>0(0000#\*h000#NOS ####CON ####0  
#####0d0f####000m 'CON #####0#0#####0;0#####000Y S#CON  
####0#####0#0#####000Z#\$NOS ####AUX #####0#####0#0H##C00000 0N0#0 0#ILK  
###"Y0#####0]0'0P0!0/060#0=Z000C\*00000ILK  
###\$0#X#####070#0,0j0#0f0#0T00000 0T\*00000ILK  
####0#0<#####0#0}0<000F0`0#0KY000U\*0000#AUX ####=h## ##0#0N####0#0%0 0e#NOS ####NOS  
####NOS ####NOS ####CLD #####5#####010005NOS ####AUX  
####010F#####0^0###E0000;D0000<#ILK ###"0Im#####0{0|0L0v0=0,0#0Kr0 0d#0000LEV  
#####q#####0

0-###00□c0000 □:0 □AUX ####02###0##0f0-####0000\$[0 □#ILK  
####0\$0G#####0#0"00040k0)0P0%H00:0i0□0□#ILK ###\$0L0H#####0#0s0#060L0#□  
0#0#00□o6000□AUX ####[0### ##0K01###0 □M0"0000 □#LEV ####0#0E#####0#□g##

00n0000 0# NOS ####ILK ###%0c0e#####0+000#0A0N0C0#0R0I0000##0000#LEV  
####0K1#####000###M0000H0000 00#>#ILK ###\$c0  
#####0j0\0-0>0?080f0M0000 0S#000ILK ###"r0c#####0#0j0S0s0f0#0t0Am0 0i#0000AUX  
####0"0x#####0'y##G#0-0L0000 0#NOS ####CON ####d0K#####0J0;####0 0rF000ILK  
###"0#n#####0@0A0#0X070h0#0Cn000q#0000NOS ####NOS ####NOS ####NOS ####NOS ####ILK  
####%0:0=#####0#060#0#0h0#0c060;0<08090000#AUX ####09<## ##0400##=0#0#000000ILK  
###'0E0X#####0A0#0Q0e0x0]0#0k0000000#0\*000#CON ####0#00#####10###"#000000000|CON  
####00  
#####0]0F##"#000}{000#ILK ###\$0 0#####0k0H000Q0R0i0#0v0 000|o0000NOS  
####ILK ###\$0B0y#####0#0H0;0?0M020x020#0#+0#0000AUX ####0W+#####0#02##?  
#0000000 0NOS ####ILK ####(0#####0#0;0#0|0#060,0q((+y0000#AUX  
#####0#####0/8#####0000000 0#LEV ####0Fi#####0<0X##M0 0k0000 00#0 #ILK ###%0-  
0K#####0L0e0u000)0Q0n030z0w0#0x0000#CON ####0=01#####0t0###K0#0000y0000@CON  
####0'0=#####0 0,##3#00000000p0n#ILK ###%0v0#####0@0e0g0U0#0P000t0#0 030#0000#ILK  
####%06}#####0#0#0C0n0k0#0#0{0000000#0o000#LEV ####|01#####0x0M###0 0#0000 0:0##ILK  
###&0#0I#####0|000)0#0/0?060r000#00#000ILK ###&0Q04#####0@0<0

0#0000V0/06000010W000CON ####0u|#####0r0y##\$#0000#000000#NOS ####AUX  
####000C#####0n0T##D000000}000 0#ILK ###%0#06#####0|0#0#0#0#0;080NK0000S0#0000#ILK  
###%90#####0c0x0#0q0,020#0p00000006000#AUX ####T0#####0E0W##&#0#0000000(ILK  
###\$020#####0r0#0#0\$0+0#0q0,0d0#0S\*0000ILK ###  
%0zk#####0e090>0\*0#0#0P0K00000 0\*0#000#CON ####2T#####0#0###F#0000 0#000#CON  
####0#0#####00g#####0000\$FqILK ###%0#Z#####0#0L0Z0|0G0#0F0G0#0000#0#0#0000#LEV  
####0#0q#####0"0p###0000d00000 0:d#CON ####C{#####0c0###F#00000000000#AUX ####h09##  
##0@0m##-#0#0000 0#ILK ###\$#0#####0M0#0#030V0r000n0  
0  
0o0#0000ILK ###\$00D#####0 00#0k0b0z070y}0000A00000LEV  
####30#####0B0r##M0y0K0&00000000L#AUX ####0R/#####070###490X0D0000000AUX  
####63#####080###L0&0#00000000 0#AUX ####0C2#####040\$## 0 0D0000 00CCON ####0J  
#####0H'##%#00000000000 0 0#AUX ####0?o#####0C0(##>0 08000000000#ILK  
###SQ0#####0#0+0  
0#0f0Y0J0X00000 0##000ILK ###%0Sf#####0a0#0C0B0#0"090+0000 0e020000#ILK  
###\$0#0.#####0#0L0m0G0]#0=000000 0[0#0000FLW  
###\$50k##&###0@0q010q#000000000#####30#0#00CON ####030#####0#0"#####0000 00J0=#AUX  
####0\*0<#####0k0K##&#0000&0#0 0#LEV ####0<0,#####0 0'##

00000000 0 0 #iAUX ####/0(#####000t##!0 0z0E0 00#ILK  
###\$0;A#####0^0B0&0#0#0#0H0`0#0000(#000LEV ####0)0L#####0  
0l###0000000000 0 0 +=ILK ###\$0e0#####010y0L0%0R0\_070W0#0#0#00000ILK ###%0  
%03#####0n0;0W0#0-0#0l0[0000 0+.000#NOS ####CON ####0E05#####0d0W#####0000#F0##LEV  
#####0  
0W#####0L0I##M0000Q0000 00#0##AUX #####e#####0I0.####00P000000ILK  
###&0.0:#####0g0E060/0#0&0X030t0000  
0W0000ILK ###&0

0N#####0#0M0z0M0p0@0X0;03000050W0 0 CON ####000#####0\$0M####00 0|#0 0 ILK ####010  
#####0a0W0"0n0w0t0Q0\*040+0W0000#AUX ####0q08#####0"0'##'#0=0000000000AUX  
####070#####0#0F##  
#000x#C#AUX ####0#y## ##0a0F##(#x0=0000 0#ILK ###&03x#####0}0#0  
0,0#0:08080000000E0W000ILK ###'0<0+#####0#0=0&00080<0Q0B0000 0#8090000#ILK ###  
%Z0;#####0u0J0Q0T0e0'0  
0'0000;0807000#ILK ####\$x"#####0q0F0E0G0g030:0+0<0000907000RPT #####0?  
#####0#0^0N0L#RPT #####0@0>#####60 0#0D0,RPT #####0]0?#####;0m0a0#0XRPT  
####0M0H#####a%0L0\_0#0NAUX #####: #####0#0  
###0#0000T#0qRPT ####P0#####0>0#0`0)#NOS ####CON  
####i00#####0v0#####0000##0 0#ILK ####@0z#####0=0+0,0#0(0p0Q0i00000W.0000#ILK ###  
%f00#####0#0#0&0l0#020>02000000T0P000#RPT ####0A0I#####^0\$H0o0X0sRPT  
####0H0Q#####]000y0&0#0+CON ####0p0!#####0#0#####000000000000'ILK  
####0#0L#####010r0R0r0  
0@0>0#0L90#30000#ILK ####"0Kg#####0)0i0/0@0#0'0 0#0 0#0 0g030000CON  
#####0p#####0m0#####000000000000 0 0 ILK ###&040t#####000#0#0=0}0d0#0R0000 0 0#0+0000ILK  
###0\$0GE#####0E0#0#0Y0w0#0U0@0000V:0P0000AUX ####0i:#####0N02#####0G0000000000#RPT  
####0I0\#####]000t0c0#0#AUX ####077##0##0i0###6#0000#0u0 0AUX  
####\*0G#####0l0#####0000000#0#70FAUX ####10{## ##0  
0###.#0V020000 0 ILK ####0\$0#####060|0w0#000z0#0#0000 0:0T0000ILK  
###""M#####0#0#0b0,0F0#0{0#0U0U:0T0000AUX ####010#####0H07##5#0

F0000 #ILK ###Z#####  
R#010j)N"Z00/#000#LEV ###L0/##### t###00000000:0  
#ILK ###&D0E#####id00v0#0p0%0

0000 020#00RPT ####0NP#####2#=#0G040(#RPT ####0Q0#####]S0; 0#0]0RPT  
####0#0@#####c0#0a0M0XRPT ####0#0#####R"i0I0#09ILK  
###&0f0T#####0#0#0]0{0^0#0E0 0000000= :000ILK ###%0#(#####  
0h0000K0^0J0B0D00000 0n#000#ILK #####0J#####0#0#0E0/0]0F0u0q0m%\$0{0000#ILK  
###%#0,#####0#0q0#0R0\*0J0K0F0f00000{0g0000#ILK  
###"nk#####0#0#0P0t0#0C0-0@c0000K#0000ILK  
#####0\$#####030p0K0p0N0V0e0L0\$K0#\*0000#ILK ###"k0-  
#####0u0#0y000#0-0f0R#0c0K#0000ILK ###&0r0 #####0L0 040#0{0#0e070,0000s0g0000AUX  
#####0s\$#####0[0D##H0K0b00000000 0FLW ###%0j-##&###0n0#0#0#00000 00i0##0j:0000#AUX  
#####0-0P#####0@0###10hd00000000 0CLD #####0h#####0\_0#0 00h#FLW  
###&0&0###&###0p030G03#000000000000 0g###0#0s0#00ILK ###%0\$06#####0Z0#0v0m0#0g0+0\  
0+0000q#000#ILK #####0(0|#####0=0 00J040B0q0u0r)'0{000#CON #####<C#####0  
0t##3#00000 0p0 0#AUX #####0?0}##2#E0-0000G#CON  
#####0M0J#####0#0###3#00000000 00#AUX #####0#07#####0N0#####0000 00'0000ILK ###%  
%0f#####0|0[0\*0S0B0L0n0z0J00000>0{000#LEV ####.0g#####0X0-##00(0)0k0000000K#ILK  
###&0N0#####0l000#070#0U0;0@0:000000W0000AUX #####0x0## ##0B0{##6#0w0z0000RILK  
###'0w0#####0<0e0-0E0+0'0;0 0000000#0u0000#ILK ###%0#0v#####0E0e0N0B0H0-  
0D0#0v0v0#0u0000#AUX #####00u#####0`0,##7#0#00000000000#ILK  
###&08#####0t0#0t0#0b0p0S0q000000000#0#00000ILK  
###'0F0#####020y0#0r010#0P0)00000000000000u0x000#AUX #####0T07#####0}00##,#0H0(000000#ILK  
###%0m0#####0#0V000}0\0{0/0#0#04050#0000#ILK  
###&E0#####0}0Y0#0`0#0m000w00000000#0#00000ILK #####0a#####000#00#0#0+0@0Z0M  
0#0o0#0000#ILK \$\$\$?0#####0r0w0Q0w0:0#0#0r0#0B0C0000000ILK ###  
%0#0Q#####0r0Z0P0#0#0#010#0#030  
0#0000#AUX #####0#0@#####0S0###!00000000 0\*0A#ILK ###\$B0w#####0#0?0#0#030  
0Q0h0#0000 ;0000ILK ###\$0}0&#####0#0Q000#070#0#0[0&0###000000RPT  
#####0^0.#####R"R}0#0Z0&ILK ###&0#0)#####0#0.0#0\_0y0e0f0#00000000Rb0000RPT #####\  
0^#####\\$/0l000#0FAUX #####0 U#####0-0y##C0000!0000 0W#RPT #####0C0#####0?  
0F0\_0YLEV ###>S#####0#0L##M0000#0000 0#0 0ILK ###%m#####000|  
0\*0w0c0a0000k000000000#00#00#ILK ###%0|0



#####v#w#c\*oim`

0000R;0\_0\_#ILK ###%0#0;#####0c010\0#0d0#0\_010P00\_0;0\_0\_0\_#CON  
####04.#####0f0>####000\_

#0/CON ####0#0#####0#0?###0000 □E00□□1ILK ###  
%0#r#####0D0#0T0#0#0.0#020000 □y0#0□0□#AUX ####0#W#####0i0Q##800□0-00000□□□□#ILK  
####K0!#####0#080C0"0Z0#0

0p00M\*0 000#CLD ####0k#####0a01000k#AUX ####0/0#####0#0L###0000000000#BAUX  
####0#0?## ##0e0a##@#0#0#0000 0#ILK ###\$}0`#####0#0+0#0  
07000V0[0000##0#00ILK ###\$0#0%#####0,0+020#050j0U0d0#0##0#00AUX ####080  
#####0=02##A#0#00000000 0ILK ###&!0"#####0u0b0#0e0&0#060\$0000 0#0#0000ILK  
####X0#####0B060j0)0#0'0-0/0#0##0#0000#RPT ####0#0]#####w0#0#0=0NNOS ####ILK  
###%0t0#####0p0[0#0c0#0y0#0

0#0t000#000#ILK ###\$0#0#####0g0##0##0c0#0 00#0:0E0#0#0#AUX ####050A#####!
0###N#0Q0N0000 #ILK ### 06#####090n0#020900#0V##7[0#0#0#AUX
####0#0#####0#0i##/#0#0000000 #ILK ####0#!#####0#0\*00e0\*0#0o0-0"0#\*0#0#0#ILK ###
%0#0#####0H0!0C0#0)0-0#0{0000#h0#0#0#ILK ###\$0"Y#####0T0\$0i0#040;0"0[0#0 #h0
000#ILK ####0d0l#####0#0g0G0h0K0#0j01X0#0#\*0#0#0#NOS ####ILK ###
%0#0'#####0[0I0#0>0f0N0#0e0'0+0(0000#ILK
###&0&0d#####0]0#0[0\$0r0D0#0]0000l0q000#0#ILK ###%00m#####
0}0\_0u000#0R0:0000b0{0s0#0#ILK ###%0#0\*#####0i000060C#

0,0n0\*0\*0s0-000#ILK ###%0)?#####0X0 0X0#0q0f0#0c00#0f0s0-0###  
I#####0#8##)#0000,0000 #ILK ###%0bD#####0z>0N0V0^0#0\040000 #0+0g#####AUX  
####0>0i## ##0"0a##P#0)0000000 #RPT #####0#0N#####?#0% 0|02#JCON  
####0Y0#####060g####0000 #05AUX ####{0#####0#0j##D#00000#####CON  
####0#b#####0#0Y####00000#0 #ILK ###%0P0#####0z0#

0#0Z0U010[0000U0T;0#0#CON ####0@0'#####0-0c####0000 0#2#AUX #### 0  
#####0M0####0#00070SNOS ####ILK ###%0#0#####0#0{0\$0r0#0;0-0N0B0000G#0#0#CON  
#####0{0R#####0#0%####0000 0F00ILK ###&0y09#####0#0L0:0K000z0G0#090000?0"0#0#ILK ###  
%089#####090#0g0#0#0#030\$0000#0A0"0#0#NOS ####ILK ###\$0

0P#####b0M0v0 0#0#000#0#00□;b000□AUX ####0(0)#####0#0###E#0000 □b0 □#CON  
####0#0#####0#0####@0000\_0J0 □#CON #####0-#####0n0]####000□r  
<#AUX #####0#0"#####0



M##  
00000#08#/CON ####0#03#####0-0)##K#0000 0#0 0AUX ####0#6#####0\*0###!#000090\*0 0ILK  
#####0#####0y0j0V0;0#0#0G0`0l0000C#0#0#AUX ####0#0 ####0#0w## #000000 000#ILK  
###\$0#0Z#####0 0"0g010-0#0\$0#0Ez0#0 0000ILK ###&0Zz#####0C0#0p0'000\_0:0#0000 00\*0  
0000AUX ####b0#####0r0t###0000 0I70 0#AUX ####0S#####0q0##20000 0600000ILK  
####gB#####0#0#040#0J0#0n0#0a000l0{0000#ILK  
###\$0#c#####0b0q0H0l000n0#0a0c0000F#0#0ILK ####0a)#####0p0Y0#0#0t030{0o0 0"  
0{0000#LEV ####qL#####0#0###00000e00000 0s0 0LEV #####0,0Y#####0  
0.##M00000000000 0#l#RPT ####000A#####l+090 %0#0#RPT  
####0.0[#####9#:0:0#0g0rRPT #####0M#####l+00f#00FILK ###\$0;02#####09010w0<0

0F0M0X020S02;000 ILK ###%0#0

#####<0V0i0#0.00010#0|0

010#000#AUX ####;0#####0#0\*##Q#N0#0000 #ILK ###'0U0\$#####0U0#

0q0N0#0#0#00000 020R0 0 0 #ILK ###%0\_H#####0u0#0Y0-060#0&0#0S0 0B0R0 0 0 0 #ILK  
###\$N0S#####0#0#a0d0\0

0,0#0T0G0T0R000□FORM###0WSWLRES ####0`0`WMX #####FORM###□WLE SCI  
#####WPL1#####0q0U#0Z#FORM###0DGWDVWT #####SHC1#####00##EQV ###

#####SHG #####AUR #####WCL #####ZOM1###  
#####Y@SCR #####B0####STY #####ICO #####CAP #####